

The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

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OL. CXLII

DECEMBER 30, 1944

Annual Subscription (with
Diary) 25/- Single copies 9d.

Lilly
1945 TRADE MARK

To the many friends whose support has contributed to the success of the past year, and whose understanding has lightened its difficulties, we offer our sincere thanks and best wishes for the coming year

ELI LILLY AND COMPANY LIMITED
BASINGSTOKE, HANTS

Chemical purity does not exist!

Our conception of purity is limited by ability to detect impurity. Absolute chemical purity is not an attainable ideal nor is it necessarily desirable (modern research has shown in many cases that the crude drug is preferable to the highly purified "active principle" and that the "trace element" profoundly modifies the action of the so-called pure chemical). *Controlled* purity is the keynote of modern standards. The British Pharmacopœia permits certain impurities but limits their amounts. Sterling Brand Chemicals are of *controlled* purity and whatever the recognised standard may be, can be relied upon to comply with that standard in all particulars.

STERLING BRAND CHEMICALS

THOMAS TYRER & CO. LTD.

STRATFORD • LONDON • E.15



REGISTERED TRADE MARK

INSIDE STORY

"He who excuses himself, accuses himself," is an old French proverb, and there is a lot of commonsense about it.

We have tried to avoid excuses in the last five years and get on with the job as thoroughly and conscientiously as possible, although the temptation has been very great when our premises have been bombed—no less than four times and once burned to the ground.

We knew, however, that retailers had their full share of troubles too and our best contribution was goods—good goods, well conceived, well made, with the right margin, good deliveries and good advertising.

The keynote of our policy throughout the war has been to keep the retail chemist going with sound merchandise and a scrupulously fair allotment of products in short supply. War-time packing has let us down occasionally and deliveries have sometimes been weeks behind. Advertising, too, has been on a low ebb. As with all responsible manufacturers, space rationing and national interest have forced it on us.

Now we look forward to getting these aspects of Simpson's service right. With the freeing out of controls, the second great era in

Simpson development since the reconstruction of this Company in 1939, starts. But Simpson distribution policy will remain unchanged—the fullest support to the retail trade and firm adherence to 'C. F.'

Co-partners.

The Simpson salesmen are your co-partners. Their job is to see you get the most out of Simpson's activities. Take them into your confidence. They have never let you down and will not do so now. Your man is in this list:—

SCOTLAND: Mr. A. E. Rogers.

NORTH EASTERN COUNTIES (*including Yorkshire*): Mr. T. W. Miller.

LANCASHIRE, CHESHIRE AND N. WALES: Mr. G. F. Stephenson.

EAST MIDLANDS AND EASTERN COUNTIES: Mr. P. J. Ball.

WEST MIDLANDS: Mr. T. J. Dare.

SOUTH WALES AND SOUTH-WEST PENINSULAR: Mr. R. H. Greenwood, M.P.S.

LONDON AND SOUTH-EASTERN COUNTIES: Mr. W. A. Castle.

NORTHERN IRELAND: Mr. J. W. Martin.

*Announcement by J. W. Simpson (Chemists) Ltd.
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Liquor Pancreaticus. Liquor Pepticus. Rennet for Cheese Making. Rennet for Industrial Purposes. (Alcohol Glycerol Extract of Rennet for Whey Feeding of Infants.) Special Junket Powders. Extomak (Desiccated Hog Stomach) Benecol (Mammalian Intestinal Extract in capsule form). Pancreatin Capsules. Pancreatin for Industrial Use. Pepsin. Benger's Food.

BENGER'S LTD., HOLMES CHAPEL, CHESHIRE

Crookes' Halibut Oil

- a drop instead of a spoonful -



**NATIONAL WINTER
ADVERTISING CAMPAIGN
HAS NOW COMMENCED
— ORDER STOCKS NOW! —**

TERMS OF SUPPLY

1. Bonus in kind will be allowed only when one or more standard parcels G, H, J, K, L, M are ordered.
2. The order must be accompanied by cash. No pro-forma invoices can be issued.
3. Orders for broken parcels or unaccompanied by cash will not be entitled to bonus in kind.
4. Bonus in kind cannot be allowed on any other Halibut Oil Products.
5. We must reserve the right to restrict the number of parcels supplied to any one establishment and thereby, as far as possible, ensure fair distribution.

CROOKES' HALIBUT LIVER OIL						
Standard Parcels of Drops or Capsules only						
		Bonus	1	Sell 5/-	£	d.
PARCEL G = 1 DOZEN 12 x 15 c.c. 5½ Drops Less 25%	3	2/-		3 12 0	2 5 0	4 6
" 10% " Amount of cash withdrawn				2 14 0	1 8 0	
PARCEL H = 3 DOZEN 36 x 5 c.c. 2½ Drops Less 25%	3	2/-		4 1 0	5 5	
" 10% " Amount of cash withdrawn				4 1 0	5 5	
PARCEL J = 1 DOZEN 12 x 30 c.c. 9½ Drops Less 25%	1	9/-		5 8 0	5 8 0	
" 10% " Amount of cash withdrawn				4 1 0	4 1 0	
PARCEL K = 6 DOZEN 72 x 5 c.c. 2½ Drops Less 25%	12	2/-		7 4 0	7 4 0	
" 10% " Amount of cash withdrawn				5 8 0	5 8 0	
PARCEL L = 1 DOZEN 12 x 100 Capsules Less 25%	1	8/6		1 16 0	1 16 0	
" 10% " Amount of cash withdrawn				10 10	10 10	
PARCEL M = 3 DOZEN 36 x 100 Capsules Less 25%	3	8/6		4 17 2	4 17 2	
" 10% " Amount of cash withdrawn				5 2 0	5 2 0	
PARCEL N = 1 DOZEN 12 x 100 Capsules Less 25%	1	8/6		3 16 6	3 16 6	
" 10% " Amount of cash withdrawn				7 8	7 8	
PARCEL O = 3 DOZEN 36 x 100 Capsules Less 25%	3	8/6		15 6 0	15 6 0	
" 10% " Amount of cash withdrawn				11 9 6	11 9 6	
PARCEL P = 6 DOZEN 72 x 100 Capsules Less 25%	12	2/-		1 3 0	1 3 0	
" 10% " Amount of cash withdrawn				10 6 6	10 6 6	

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INDEX TO ADVERTISERS

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A.B. Products	18
Actina, Ltd.	Leader Page
Acton Pill & Tablet Co., Ltd.	viii
Aimer, G. C., & Co., Ltd.	ii
Allied Laboratories, Ltd.	5
Anderson & Reeve, Ltd.	19
Andrews Dental Co.	19
Ardrich Co., Ltd.	10
Ashe Laboratories, Ltd.	19
Barker, R., & Son, Ltd.	viii
Beatson, Clark & Co., Ltd.	iii
Beaucaire Labs., Ltd.	ix
Beaulah, J. & J., Ltd.	22
Bengers, Ltd.	2
Bengué & Co., Ltd.	4
Bishop, A., Ltd.	14
Brand & Co., Ltd.	vii
Briccas, Ltd.	Leader Page
British Cellophane, Ltd.	viii
British Cod Liver Oil Producers (Hull), Ltd.	i
British Rototherm Co.	iv
British Schering, Ltd.	5
Burrough, James, Ltd.	Leader Page
Burroughs Wellcome & Co.	23
Bush, Beach & Gent, Ltd.	i
Carnegie Chemicals (Welwyn), Ltd.	Cover iv
Carus, A., & Sons, Ltd.	17
Carvansons, Ltd.	20
Ceylon Laboratories, Ltd.	13
Celunox, Ltd.	xi
Cheriton Co., Ltd.	ii

(continued overleaf)

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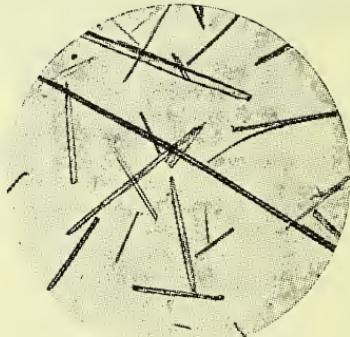
INDEX—(contd.)

Container Recovery Service	iv	Monro, G., Ltd.	x
Cox, Arthur H., & Co., Ltd.	8	Moore Medicinal Products, Ltd.	xii
Crookes Laboratories (British Colloids, Ltd.)	3	Napp, H. R., Ltd.	Leader Page
Croydon Chemical Works	vi	Newball & Mason, Ltd.	viii
Dales Aspirin Co.	15	Newsome, A., (Eezit Morley, Ltd.)	12
Daniel, Richard, & Son, Ltd.	9	Osogood Home Dyes, Ltd.	ix
Distillers Co., Ltd.	Leader Page	Oxo, Ltd.	24
E.N.T. Manufacturing Co., Ltd.	Leader Page	P.A.C. Chemicals, Ltd.	20
Emsa Works & Herbert Foot Appliance, Ltd.	v	Paines & Byrne, Ltd.	4
Energen Foods, Ltd.	vii	Palestine Potash, Ltd.	
Epheta Manufacturing Co.	vi	Polak & Schwarz (England), Ltd.	16
Eva, Alf.	viii	Potter & Clarke, Ltd.	21
Freudentheil, Smith & Co.	ii	Rabot Manufacturing Co., Ltd.	viii
Fubex, Ltd.	ix	Rendell, W. J., Ltd.	7
Gale & Mount, Ltd.	i	Reuter, R. J., Co., Ltd.	22
Genital Products, Ltd.	xii	Revai & Co., Ltd.	Leader Page
General Advtg. Co. of London, Ltd.	4	Robinson & Sons, Ltd.	v
Gibson, Robert, & Sons, Ltd.	9	Rodmill Chemical Co., Ltd.	15
Goya	19	Roura & Forgas, Ltd.	ii
Gosheron, John, & Co., Ltd.	15	Samona, Ltd.	9
Guest, Thos., & Co., Ltd.	12	Savory & Moore, Ltd.	24
Haller Laboratories, Ltd.	ix	Scurr, C. A.	Col. Supp.
Harvey & Co. (Dublin), Ltd.	viii	Sessions, W., Ltd.	22
Heynes, Matthew, Ltd.	xi	Sigal & Co., Ltd.	Leader Page
Hogg, M. C., & Co.	x	Simpson, J. W., (Chemist), Ltd.	1
Ilex Supply Co., Ltd.	14	Spencer, I., & Co. (Aberdeen), Ltd.	iii
International Laboratories, Ltd.	15	Splendor, Ltd.	22, vii
Jeffreys, Miller & Co., Ltd.	15	Stannard Distributing Agencies, Ltd.	x
Johnson & Johnson (G.B.), Ltd.	15	Stanning Proprietaries	13
Kearslay, C. & G., Ltd.	16	Suter, A. F., & Co., Ltd.	iii
Keenes Laboratories, Ltd.	10	Tampax, Ltd.	v
Kellys, J., (London), Ltd.	x	Thackray, C. F., Ltd.	8
King, G., & Co.	vi	Tonicity Laboratories, Ltd.	22
Knox Laboratories, Ltd.	vii	Tyrer, T., & Co., Ltd.	Cover ii
Knox, John, (Midland), Ltd.	10	Velvet Crepe Paper Co., Ltd.	xi
Lilly, Eli, & Co., Ltd.	22	Watford Chemical Co., Ltd.	6
Liverpool School of Pharmacy	Front Cover	Wesley, Harold, Ltd.	20
Matthews Laboratories, Ltd.	Leader Page	Whiffen & Sons, Ltd.	Cover iii
Maw, S., Son & Sons, Ltd.	Leader Page	White, J. F., & Co., Ltd.	12
May & Baker, Ltd.	10, 11	Winox (Beaufoys Wines).	vi
	13	Zeal, G. H., Ltd.	iv
		Zems, Ltd.	12

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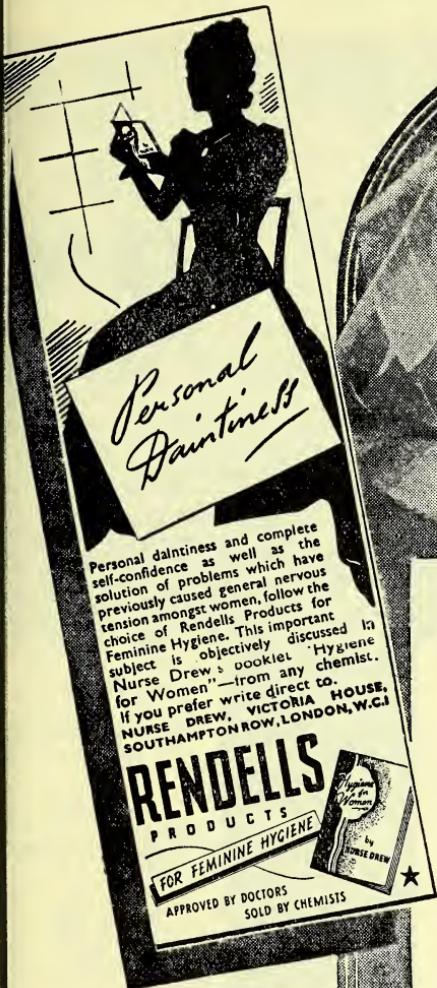
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FOR FEMININE HYGIENE

P.A.T.A.

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OF BRIGHTON

1944-45

With the closing of another year, we wish to place on record our appreciation of the co-operation and indulgence of all our Friends in the trade during the past five difficult years. While playing our part in the war effort, we have done our utmost to keep customers everywhere supplied, but priority demands, restrictions etc., have made this procedure increasingly difficult.

When Peace comes—and it is our fervent hope that this may be soon—we shall quickly organise to render our usual efficient service, and to accommodate all the business which we have reluctantly been obliged to refuse. Needless to add, our representatives are looking forward to the time when prosperous trading conditions return and they can resume their regular calls again.

So, until Victory is here, we shall continue to do our best in the interests of everyone.

ARTHUR H. COX
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Manufacturing Chemists
B R I G H T O N

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OF BRIGHTON

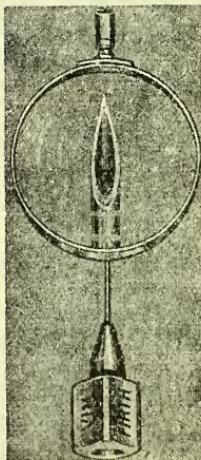
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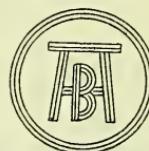
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NOTE Reduced Purchase Tax

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Acidum Citricum	34
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So confident are we of Neodex Seltzer that if any customer should ever express dissatisfaction, we would ask the chemist to refund the full purchase price without question. Upon receipt of a card we will immediately reimburse the chemist plus postage.

International Laboratories, Ltd. - - - - - Charlbury, Oxford



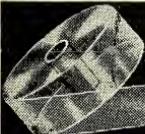
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December 30, 1944

PLASTIC *Presentation*



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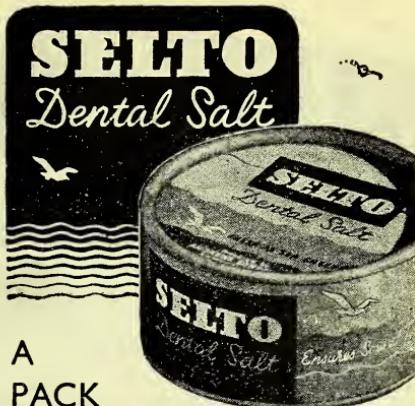


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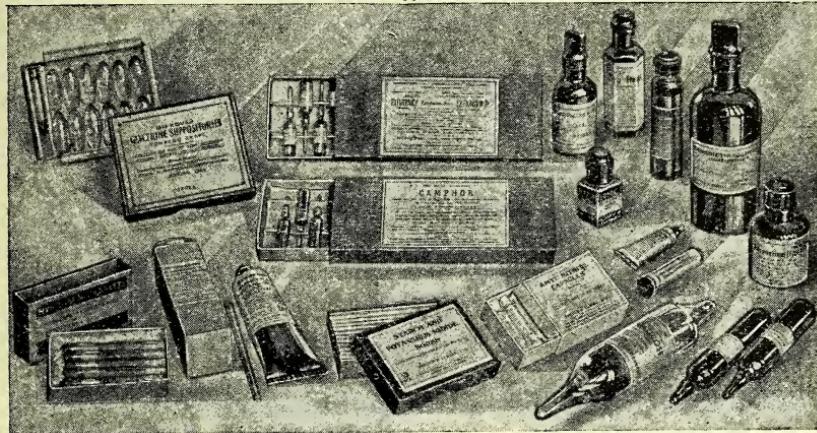
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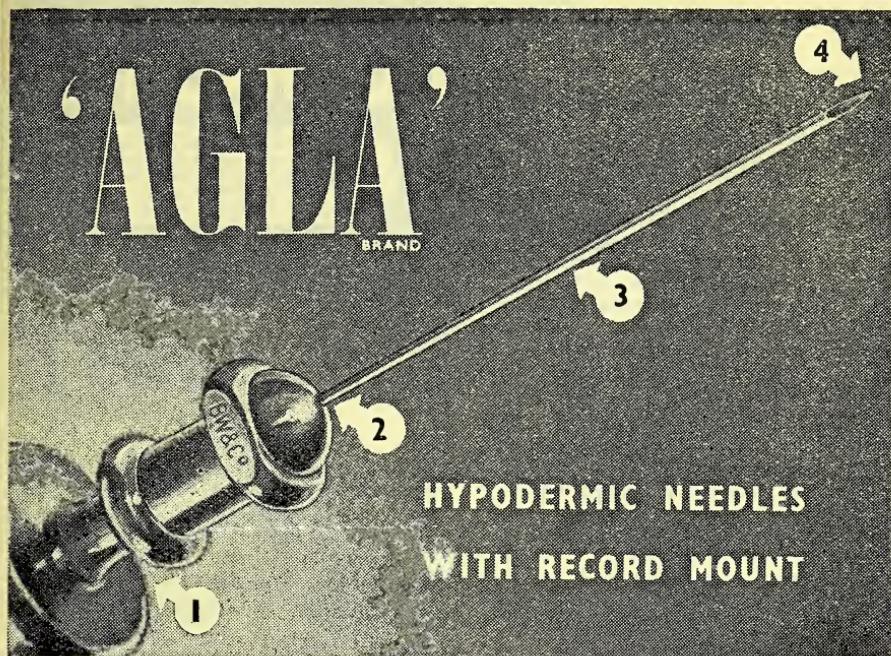
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The CHEMIST AND DRUGGIST

For RETAILER — WHOLESALER — MANUFACTURER

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Emergency Address: 17 ARGYLE STREET, BATH Telephone: Bath 5492**CONTENTS**

	Page		Page
1945—Drug Trade New Year		Deaths ..	682
Greetings ..	684	Inquests ..	678
American Notes ..	683	Legal Reports ..	680
Births ..	682	Medical Abstracts ..	702
Business Changes ..	681	Miscellaneous Inquiries ..	702
"C. & D." Quiz No. 44 ..	694	News of the Week ..	677
Coming Events ..	682	North Down Chemists' Association ..	695
Commercial Notes ..	701	Personalities ..	682
Company News ..	680	Plastics in Restoration Surgery ..	696
Correspondence ..	702	The Past Year's Markets ..	698
Editorial Articles:—		Topical Reflections ..	679
The Year Ahead ..	693	Trade Marks ..	681
"C. & D." Poisons Guide—A New Edition ..	694	Trade Notes ..	681
		Trade Report ..	700

NEWS OF THE WEEK

To Join Dyestuffs Committee.—Mr. H. Gordon Ferguson (chairman, Cornbrook Chemical Co., Ltd.) has accepted an invitation from the President of the Board of Trade to represent the British Colour Makers' Association on the Dyestuffs Control Advisory Committee, the chairman of which is the Controller of Dyestuffs (Mr. T. H. Hewlett, M.P.).

Disabled Persons Advisory Council.—The Minister of Labour and National Service has established, under the Disabled Persons (Employment) Act, 1944, a National Advisory Council to advise and assist him in matters relating to the employment, undertaking of work on their own account, or training, of disabled persons. Viscount Ridley, C.B.E., has been appointed chairman.

Wax Polishes Decontrolled.—The Board of Trade announces that the control of the supply, marking and packing of polishes made wholly or partly of wax will be discontinued after December 31, 1944, when the current Limitation of Supplies (Polishes)

Order (S. R. & O., 1944, No. 677) expires. Separate directions will be issued calling for returns of supplies made in the period ending December 31. Confidence is expressed that manufacturers will do their utmost to expand exports.

Census of Retail Shopkeepers.—The President of the Board of Trade was asked in the House of Commons on December 19 on what lines and with what object he was compiling a census of retail shopkeepers. He stated that no such census was yet being compiled. He was, however, discussing with a number of trade organisations the possibilities of taking a census of distribution after the war. No one need feel any concern or anxiety about the matter, because it would not be possible, in any case, to take action until matters had settled down after the war, but it would be valuable to have the information, as the United States had found.

Research Lectureship.—The endowment of a research lectureship in physical chemistry for several years by Brotherton

& Co., Ltd., was announced by the Vice-Chancellor of Leeds University at a meeting of the University Court on December 20, together with a further gift of £1,000 by Mr. Charles Brotherton for defraying the cost of the apparatus and equipment of the department.

Nottingham Whist Drive.—Mr. W. Lee presided over a successful tea, whist drive, and dance at the Mikado café on December 14. A collection was made for the Pharmaceutical Society's Benevolent Fund, and during the evening the chairman was able to announce that the target (£100, which included £26 5s. from Boots, Ltd.), had been reached. During Mr. Lee's chairmanship he has raised about £170 for the Fund. Mrs. Lee presented the prizes to the whist drive winners.

Eire Rugby Club Dance.—The Chemists' Rugby Club had its most successful dance to date in Dublin recently, when there was an attendance of some 650 people. Those present included Messrs. F. X. Meagher (president of the Club), J. J. Roche and D. J. Nugent (vice-presidents), Lyall G. Smith (president, Irish Drug Association), P. C. Cahill, D. Mulvey (captain), and Treacey (president of the social club). During the past few weeks the team has been successful in all its encounters.

Hull Film Shows.—Hull chemists met on November 24 to see the films "Defeat Diphtheria," "Blood" (showing the composition, functions, etc., and the making of plasma), "Heredity in Man," and "Defeat Tuberculosis." An appeal was made by the president of the Hull Chemists' Association (Miss E. Palmer), who was in the chair, for volunteers as blood donors. The audience included biological and pre-nursing students from the Hull Technical College and members of the Scientific and Field Naturalists' Club.

William Forster Testimonial.—The presentation of the William Forster Testimonial took place at an informal meeting of the committee on December 6. Mr. G. H. M. Graham, who succeeded Mr. Forster as a representative upon the National Pharmaceutical Union Executive, handed him a cheque for £80. Several members expressed personal appreciation of Mr. Forster, and the secretary read extracts from many letters received from all parts of the country expressing the high esteem and regard in which Mr. Forster was held and appreciating his work for retail pharmacy.

Ulster Chemists' Dance.—The Ulster Chemists' Association held an enjoyable dance in Belfast recently, when there was an attendance of about 300 members, associates and friends. Members of the social subcommittee responsible for organising the dance were Mrs. E. H. Barr, the Misses L. M. Forrest and C. E. Culbert, Messrs. A. E. Johnston, W. H. Boyd, H. W. Gamble, Joseph Wellwood, M. Hodes, J. R. Guiler and James McClenahan. Winners in a ballot held during an interval were Messrs. McCloy, Devlin and Seaton. Mrs. J. R. Guiler distributed the prizes. Messrs. J. McClenahan and W. H. Boyd acted as M.C.'s.

INQUESTS

Pharmacist Found Dead.—At an inquest at Horsham, recently, on William George Powell, aged seventy-one, formerly in business at St. Leonards, a verdict of "Suicide while mentally unbalanced" was returned. Deceased pharmacist was found dead in a pond near his home. It was stated that he had been extremely worried about the war.

Wrong Medicine Handed Out.—At an inquest at Bradford, on December 11, on John Wilkinson, Lidget Green, the widow gave evidence that her husband had suffered from cancer of the stomach. The doctor gave him a prescription for medicine to ease bladder trouble, and he died shortly after he had begun taking the mixture. Later it was discovered that the medicine was not that prescribed by the doctor. A director of a firm of chemists stated that medicine for Mr. John Wilkinson was made up and placed on the dispensed medicine shelf, awaiting collection. There was, on the same shelf, another bottle of medicine for another Mr. Wilkinson. Later it was found that the wrong bottle was handed out. A verdict of death from natural causes was recorded, and the coroner said that chemists experienced difficulties owing to their not having paper in which to wrap bottles of medicine and thus label them thoroughly. The case should put chemists on their guard to ensure that they were taking adequate precautions against handing out wrong bottles.

Paper Chains.—Paper forms a vital link in the chain of military equipment that will finally overwhelm the Nazi aggressor. Salvage yours to help make the present campaign conclusive.

TOPICAL REFLECTIONS

A Promising Foundation

The prospective establishment of the Canadian Foundation for Pharmaceutical Education, with provision for "specialised post-graduate courses" (p. 656), suggests a question as to what is being done on similar lines in our own country. It is clear that the training of students to pass an examination qualifying them to carry on business under the provisions of the Pharmacy and Poisons Act, 1933, does not take us far in the field of pharmaceutical research, a field never more important, I suggest, than it is at the present time. The numerous problems that arise on the scientific side of pharmacy, especially in large-scale working, need for their solution a close-knit integration of trained skill and, as was pointed out in your recent series of editorial articles on scientific and industrial research, sustained co-operation between academic and industrial experts. Your account of the Mellon Institute of Industrial Research (August 5, p. 146) shows that, side by side with the provision of laboratory facilities and advice by specialists to firms and persons undertaking investigations, the Institute "carries out a large amount of pure research and of applied research not directed to profit-making, and the results of such research are made generally available by publication"; and that research workers are trained there.

Research Awaited

The research list of the British Pharmaceutical Conference, published annually in normal times, comprises a formidable number of subjects awaiting attention. Of late years the majority of the monographs submitted to the Conference have come from the scientific staffs of manufacturing houses and the pharmaceutical departments of universities and colleges. Taking the year 1939 as an instance, the report of the Science Section of the Conference contains abstracts of ten papers from manufacturers' laboratories, six from universities or colleges, and seven not classified. We must not overlook the formation in 1941 of the Therapeutic Research Corporation of Great Britain, Ltd., which is no doubt engaged in work of great importance on the lines laid down in its articles of association. But without the smallest desire to lessen the esteem with which all sound pharmacists regard this admirable body, it may be remarked that its angle of approach is not specifically pharmaceutical. What is needed,

it seems to me, is a type of independent team-work based on the postulate that it is the province of pharmacy to evolve and to control the presentation of every medicament in the most convenient form. In leaving this subject, I may note that scientific research, likely as it is to contribute increasingly to the national welfare, must not expect much assistance from the Legislature. In "The Times" of December 23, Professor A. V. Hill, M.P., gave a forceful warning to this effect.

Mystifications by Quacks

In the second of the articles referred to in this section last week, Addison comments on the use of poetry as a "sister art" to medicine. "Poetry to physic is indeed like the gilding to a pill; it makes the art shine, and covers the severity of the doctor with the agreeableness of the companion." He proceeds to instance some of the obfuscations practised by charlatans in their advertisements. "About twenty years ago it was impossible to walk the streets without having an advertisement thrust into your hand, of a doctor 'who had arrived at the knowledge of the Green and Red Dragon, and had discovered the female fern-seed.' Nobody ever knew what this meant; but the Green and Red Dragon so amused the people, that the doctor lived very comfortably upon them. About the same time there was pasted a very hard word upon every corner of the streets. This, to the best of my remembrance, was *Tetra-chymagogon*, which drew great shoals of spectators. . . ." The essayist mentions that Saffold, the successor of the well-known Lilly, was followed by Case, who, erasing the verses of his predecessor from the "sign-post," substituted "Within this place Lives Doctor Case." Addison comments: "He is said to have got more by this distich, than Mr. Dryden did by all his work." An undated broadside in the British Museum gives Case's address with such particularity (in twenty-eight words) that it must have been easy to find, and includes eight lines of doggerel previously published by Saffold. Apothecaries receive their share of playful criticism: ". . . as physicians are apt to deal in poetry, apothecaries endeavour to recommend themselves by oratory, and are, therefore, without controversy, the most eloquent persons in the whole British nation." The panacea suggested in the article is "Abstinence."

Xrayser

LEGAL REPORTS

Hair Grips at More Than Maximum Price.—At Blackpool, on December 11, John Herbert Clarke, Blackburn, and Herbert Rowe, Blackpool, were each fined £5 for selling hair grips in St. John's Market at 1s. doz., instead of the maximum of 3d. doz. Rowe produced Clarke's invoice to support a statement that the goods were not hair grips but paper clips. Clarke, when written to, stated there was a fundamental difference between hair grips and paper clips; he had supplied the grips at 4s. 6d. gross instead of 1s. 6d. Fred Powney, Leicester, was fined £10 in all for selling hair grips at excessive prices, and £5 for a similar offence respecting a comb. Powney had also to pay three fines of £2 for refusing to sell hair grips and failing to display the requisite notices. Leonard Harris, Leicester, was fined £9 for aiding and abetting. Stanley Whitehead, Blackpool, and Leonard Greet, Leicester, were each fined £10 for selling hair grips at above the maximum price.

Inadequately Labelled Perfumes.—At Bow Street, London, magistrates' court, on December 19, Thomas Kay Clarkson, salesman, Lopus Street, Pimlico, was fined £100, with £5 5s. costs, for supplying perfumes in bottles which did not bear the name and address of the manufacturer or re-packer. He pleaded guilty. Further charges under the Toilet Preparations Order, and a charge of selling saccharin in excess of the maximum price, were not separately dealt with. For the Board of Trade it was stated that Clarkson had supplied a number of chemists with brilliantine, eau de Cologne and perfumes in containers on which the manufacturers' names did not appear. On December 4 two Board of Trade inspectors went to a shop in Wilton Road, Victoria, and saw Clarkson talking to Mr. A. Zannoni, the proprietor. Mr. Zannoni said that Clarkson had sold him some perfumes in unlabelled bottles. Clarkson's invoice books showed that he had supplied, in all, goods to the value of £106. The invoices had no headings. He said he did not manufacture the perfumes himself, but declined to say from whom he obtained them. Containers bore the name and address of a firm which could not be traced. Counsel added that these goods were not allowed to be made except under licence, and the object of the Regulations was to enable the authorities to trace the manufacturers. A police officer said Clarkson had been invalidated out of the Royal Air Force.

COMPANY NEWS

CAUSTIC-SODA, LTD. (P.C.).—Capital £100. Objects and other particulars similar to Bi-Carb Soda, Ltd., below.

BI-CARB SODA, LTD. (P.C.).—Capital £100. Manufacturing, wholesale and retail chemists, etc. Cyril R. G. Young, director. R.O.: 120-22 Victoria Street, S.W.1.

PIGALIE (INTERNATIONAL), LTD. (P.C.).—Capital £100. Manufacturers and dealers in herbs, toilet requisites, colours, etc. Rosa Smilowski, director. R.O.: 12 Whitehall, London, S.W.1.

JOHN HILTON (CHEMISTS), LTD. (P.C.).—Capital £1,000. Wholesale and retail chemists, etc. John Hilton, M.P.S., and John Hilton, sen., directors. R.O.: 148 Blackfriars Road, Salford, Lancs.

J. MORRIS (OLD HILL), LTD. (P.C.).—Capital £1,500. Wholesale or retail chemists, etc. Joseph Morris, Norman H. Leaker, and Thomas W. Withington, directors. R.O.: The Cross, 56 Halesowen Road, Old Hill, Staffs.

RADI CHEMICALS, LTD. (P.C.).—Capital £100. Analytical, research, consulting and manufacturing chemists, etc. W. S. Stevens, 78 Upper Richmond Road, London, S.W.15, and Gordon S. Bouldin, 71 Ravensbury Road, London, S.W.18, directors.

BRYNN MANUFACTURING CO., LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in chemicals and drugs, etc. John B. Morris, M.P.S., 1 Laurel Grove, Ashton-in-Makerfield, and Edward Halliwell, 206 Wigan Road, directors.

SUEDENE, LTD. (P.C.).—Capital £100. Manufacturers of and dealers in polishes, toilet preparations, fertilisers, etc. Charles H. Millington, Austin W. and Malcolm Stansfield, and Stanley Morgan, directors. R.O.: 57 Duke Street, Barrow-in-Furness.

PRITCHARD (CHEMISTS) PONTYPRIDD, LTD. (P.C.).—Capital £1,500. To acquire the business of a chemist carried on at Pontypridd as E. T. Pritchard by Nellie M. Pritchard. Nellie M. Pritchard and Gwynnelth A. Lewis, directors. R.O.: 31 Sardis Road, Pontypridd.

R. A. McDANIEL, LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist, druggist and hairdresser formerly carried on by the late R. A. McDaniel at Bungay. Herbert W. Gray, Mabel E. Oclee, and Henry Grange, M.P.S., directors. R.O.: 30 Earsham Street, Bungay, Suffolk.

TRADE NOTES

Sole Agency.—The sole distribution of Laneta depilatory and Lasheen eye cosmetic is being handled by Johnson Agencies (Proprietaries), Ltd., Clarendon Works, Clarendon Road, Croydon, Surrey.

Pain-killing Tablets.—Splendor, Ltd., Nottingham, direct attention to their product Propax tablets for the relief of pain. The preparation is in two sizes in an attractive pack to assist in making it a ready seller.

Veterinary Obstetric Lubricant.—Burroughs Wellcome & Co. direct attention to Velufax brand obstetric lubricant (veterinary), which is described as a bland, pleasant-smelling cream specially designed for application to the hands and arms prior to obstetrical manipulations, rectal or vaginal examinations, etc. It possesses antiseptic and deodorant properties, and is highly economical in use, a single application being sufficient to maintain an efficient lubricating film for a considerable period. The cream is made with a water-soluble base, and can be easily and quickly removed with cold water and without the use of soap. Velufax is issued in pots of approximately 3½ oz. (sufficient for thirty-five to forty average applications).

Synthetic Ergometrine.—The scientific and research department of Sandoz Products, 134 Wigmore Street, London, W.1, has forwarded us an abstract from an American medical periodical reporting observations on Methergine, a synthetic ergometrine synthesised by Stoll and Hoffmann, Basle, Switzerland, which was first employed subcutaneously in twenty-six cases under observation in the Department of Obstetrics, Stanford University Hospital. No systemic reactions were encountered. Methergine was next administered intravenously in the third stage in a dosage of 0.2 mgm. in 1 c.c. to thirty-four patients, of whom six were primiparas and twenty-eight multiparas. The contraction of the fundus following administration of Methergine was stronger and of a considerably greater intensity and duration than with the usual ergometrine preparations. No increase in the incidence of postpartem morbidity or subinvolution of the uterus was noted.

Business Changes

HENRY MINDEN, chemical merchant, has removed to 281 Dashwood House, 69 Old Broad Street, London, E.C.2. Telephone: London Wall 4962-63.

MR. F. HOLDEN, M.P.S., has taken over the pharmacy of Carris's, Ltd., at 13b Lime Street, Liverpool, 1.

E. CROSS & SON (Mr. S. T. Pugh, M.P.S.), chemists and druggists, whose premises were blitzed in 1941, are now established at 182 Vicarage Road, Langley, Birmingham.

CRESSWELL BROS. & MARKS (International Sponge Importers, Ltd.) are removing to 17-21 and 20-24 Emerald Street, Holborn, London, W.C.1. Telephone: Chancery 7526-27.

TRADE MARKS

(From "The Trade Marks Journal," December 6)

Device of lifebelt with words "To the Rescue" (exclusive use disclaimed) and monogram "P.Q.S.;" for pharmaceutical preparations (5). By A. Parkinson, 110 Friargate, Preston. B629,066.

"ONNE TRINUM PERFECTION"; for antiseptics (5). By W. R. Bruce, 34 Princes Avenue, Gunnersbury Park Estate, Acton, London, W.3. B629,601.

"AERISON"; for pharmaceutical preparations for air travel sickness (5). By Camden Chemical Co., Ltd., Northington Street, London, W.C.1. 629,813.

"DIFFLY"; for fly-exterminating preparations (5). By A. Ibbetson & Co., Ib-co Works, Great North Road, Stevenage, Herts. 629,848.

"INGO"; for all goods (5). By Moore Medicinal Products, Ltd., 7 Bon Accord Square, Aberdeen. B630,116.

"BABJOVS"; for pharmaceutical preparations for infants (5). By H. & I. Isaacs, 111 High Street, Merthyr Tydfil. 630,367.

"ORALUTON"; for pharmaceutical preparations for oral administration (5). By British Schering, Ltd., 185-90 High Holborn, London, W.C.1. 630,416 (Associated).

"DAILY DOZEN"; for medicated tonic preparations for poultry (5). By Salinax, Ltd., Mount Pleasant, Wembley. 630,509.

"REGAL"; for machines for waving the hair (7). By A. H. Taylor, 78 Offerton Lane, Stockport. 630,948.

"CERAMETAL"; for parts (not included in other Classes) of scientific, photographic, and optical apparatus and instruments; fire-extinguishing apparatus, etc. (9). By Bound Brook Bearings (G.B.), Ltd., Birch Road, Witton, Birmingham, 6. 630,350 (Associated).

"DREADNOUGHT"; for lavatory-paper holders, etc. (21). By E. G. Pyne, 5 Park Avenue, West Wickham, Kent. 629,516.

"LADY PATS"; for babies' napkins, etc. (25). By A. Carus & Sons, Ltd., Hoddlesden Mills, Johnson Road, Hoddlesden, Darwen, Lancs. 629,704.

BIRTHS

O'SULLIVAN.—At the Eveleen Nursing Home, Dublin, on November 21, the wife of Mr. T. B. O'Sullivan, M.C.P.S.I., 67 Parnell Street, Dublin, of a daughter.

DEATHS

CRUICKSHANK.—On November 22, Mrs. Elizabeth Milne Kynoch Cruickshank, M.P.S., 21 Holland Road, Harlesden, London, N.W.10. Mrs. Cruickshank qualified in 1925.

HAYWARD.—Recently, at the residence of his daughter and son-in-law at Langton Green, nr. Tunbridge Wells, Mr. Luther Hayward, aged eighty-two. Mr. Hayward was for many years a traveller for Burroughs Wellcome & Co., London, but subsequently acquired a retail business at Bromley, Kent. He had also been in business at Tunbridge Wells and Tonbridge.

HENDERSON.—At the Deaconess Hospital, Edinburgh, on December 12, Mrs. Katherine W. M. Seath Henderson, eldest daughter of the late Mr. John Alexander Seath, M.P.S., Dunfermline.

JACKSON.—At The Pharmacy, 18 Teme Street, Tenbury Wells, Worcs., on December 14, Mr. William Jackson, B.Sc., M.P.S., aged forty-five.

LAWRENCE.—On November 26, Mr. William Llewellyn Lawrence, M.P.S., 23 Church Street, Harrington, Cumberland. Mr. Lawrence qualified in 1909.

SHORT.—On December 6, Mr. Arthur Short, M.P.S., 756 Chesterfield Road, Woodseats, Sheffield, aged forty-nine. Mr. Short qualified in 1921.

STEWART.—On October 11, Mr. Andrew Gilbert Stewart, M.P.S., 8 Cowan Road, Edinburgh. Mr. Stewart qualified in 1925.

THORNHILL.—On December 14, Mr. Ernest Thornhill, 78 Broxash Road, Battersea, London, S.W.11, aged seventy-six. Mr. Thornhill qualified as a chemist and druggist in 1890.

WATTERS.—On November 28, Mrs. Jessie Watters, M.P.S., 143 Cubbington Road, Lillington, Leamington Spa. Mrs. Watters qualified in 1924.

WESTLAKE.—On December 14, Mr. Walter Vincent Westlake, M.P.S., 13 Church Road, Ashford, Middlesex, aged sixty-six. Mr. Westlake qualified in 1899.

PERSONALITIES

MR. J. L. HIRST, M.P.S., has been appointed to represent the Liverpool Branch of the Pharmaceutical Society on the management subcommittee of the Liverpool Technical College.

LIEUTENANT NEVILLE H. SCHOLLAR, F.S.M.C., F.B.O.A., a son of Mr. N. Howard Schollar, M.P.S., Hinckley Wood, Esher, has fully recovered from his wounds and has been furnished with an artificial left arm. Now classified as fit for home service, he has been transferred to the Training Regiment, Royal Armoured Corps.

MR. HUGH N. LINSTEAD, M.P. (secretary of the Pharmaceutical Society) was one of the signatories of a letter which appeared in "The Times" on December 22 deprecating proposals by another group of Conservative members of Parliament that the National Health Service medical benefits should be limited to persons covered by existing legislation and their dependants.

COMING EVENTS

Saturday, December 30

ASSOCIATION FOR SCIENTIFIC PHOTOGRAPHY, Caxton Hall, Westminster, at 2.30 p.m. Messrs. H. Baines, D.Sc., F.R.I.C., and F. J. Tritton, B.Sc., F.R.I.C., on "The Choice of Materials for Scientific Photography."

Sunday, December 31

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble to Whaley Bridge, Disley and Bollington. Meet London Road Station, 10.5 a.m. Book Whaley Bridge return. Inquiries to W. Edwards, Old Trafford.

Wednesday, January 3, 1945

NATIONAL PHARMACEUTICAL UNION, S.3 District, Rougemont Hotel, Queen Street, Exeter, at 3 p.m. Special district meeting. Mr. R. H. Kemp, Ph.C. (local organisations officer) on "Your Business—A Review and a Forecast."

Thursday, January 4

WEST HAM AND EASTERN DISTRICT ASSOCIATION OF PHARMACISTS AND BRANCH, Lecture theatre, Manor Park Library, Romford Road, London, E.12 (opposite Three Rabbits Hotel), at 7 p.m. New Year party.

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

AMERICAN NOTES

Report on Anti-malarials.—The United States Board for the Co-ordination of Malaria Studies recently issued a report in which it stated that experience in the previous two years had demonstrated conclusively that quinacrine (mepacrine), when properly administered, was fully as effective as, and safer than, quinine in the termination of the acute attack. Intramuscular injection of quinacrine was highly effective in securing a rapid therapeutic response. Gastro-intestinal disturbances occurred more frequently after the use of totaquine, U.S.P., than after the administration of quinine or quinacrine.

Group Medical Care Proposal.—Dr. Morris Fishbein (editor of the "Journal of the American Medical Association") spoke recently to urge private doctors to join with business and industrial representatives in the United States to offer group medical care for employed persons in the lower income grades. Dr. Fishbein was speaking to a meeting of the National Physicians' Committee for the extension of medical care. He said it was well within the desire and ability of American medicine to develop, for American workers, plans for the provision of medical care which would be democratic in conception and function.

Empire Rubber Imports to U.S.—The Foreign Economic Administration of the United States Government reported in the autumn that the United States this year was receiving, as reverse Lend-Lease from British Commonwealth sources, about 78,000 tons of crude rubber, or more than half the total Commonwealth production for the year. About 70,000 tons was coming from Ceylon, 4,500 tons from United Kingdom stocks, 3,100 tons from India and the balance from British territory in the western hemisphere. The total was appreciably larger than anticipated United States crude rubber imports from all other sources during the year. Shipments from Ceylon, the United Nations' largest producing source of crude rubber since the loss of Malaya and the East Indies, represented more than two-thirds of her output. Most of the balance of the Ceylon rubber production was destined for Russia.

War and Communicable Diseases.—At the annual convention of the American Health Association at New York, in October, a military speaker said typhoid and dysentery, typhus fever, smallpox, malaria, venereal disease, and scabies had

offered the greatest military health problems. In both Italy and north-western Europe the incidence of typhoid and paratyphoid fevers increased in the wake of combat operations, but sharp outbreaks had been limited to a relatively few communities. In January 1944, the peak month, over 1,000,000 new cases had been reported, but the epidemic was quickly controlled, and only thirty-nine cases were reported during the final week of February. Typhus had not yet been a problem in north-western Europe, although the test would doubtless come during the winter months, and the civilian public-health programme called for re-inauguration of the smallpox vaccination programme at the earliest date. Despite this, two outbreaks had occurred in Italy. One was small and easily controlled. In the other, over 800 cases occurred in a large city during a four-months' period. In February 1944 the civilian public-health group had re-established an active malaria control programme in southern and central Italy.

Malaria Control in the Pacific.—The assistant surgeon-general of the United States Army has described, at a War Department Press conference, the operation of mosquito-control units of the Medical Corps in the Pacific islands, Saipan and Guam. The islands were divided into districts, each being placed under the supervision of a control unit. The districts were drained, ditched and sprayed. Pools were checked for larvæ, and any mosquitoes found were examined and classified as to type. The spray used was the newly-developed DDT, mixed with a light oil. It was operated both by hand, and over large areas by spraying from aircraft, using special apparatus attached to the planes. Within a few days all mosquitoes and flies were successfully exterminated. The Medical Corps men were also equipped with small insecticide bombs that could be used in shell holes. In response to a question, he said Japanese medical supplies examined by him on his trip appeared to be of good quality, especially the surgical instruments. Japanese medical supplies were however, meagre and confined to bare essentials. He reported on the use of a new deodorant and insecticide which has supplemented the use of crude oil to kill flies and maggots in latrines. In place of 5 gall. of oil daily, $\frac{1}{2}$ lb. of PDB powder was now sprinkled twice a week for effective deodorisation.

1945—Drug Trade

IN reply to our invitation, we have received from the leaders of the professional and trade organisations of the drug trade the following New Year Greeting messages:—

Pharmaceutical Society of Great Britain

I AM happy to have this opportunity of wishing your readers a happy New Year. This greeting is uttered once again under the cloud of war, which does so much to mock the sentiments which it expresses, but this year our hearts are lighter and the spirit of the season has a brighter prospect of fulfilment. We all believe and hope that 1945 will see the end of the war in the West, and that we can then welcome home those pharmacists who will thereby be released.

*F. G. Wells,
President.*

Pharmaceutical Society of Great Britain (North British Branch)

I WELCOME the opportunity of "blending" a little "Scotch" into the polypharmic draught of good wishes with which your many readers, as the door of another year opens, are greeted. What can a Scottish "first footer" wish for pharmacy that would be appropriate and useful? *First*, surely that the year will mark the end of European hostilities and so allow us to welcome back home to the ranks of pharmacy some of the many who have played a part so manfully on the war front, and that we on the home front, even if the strain is beginning to tell on older men, will still maintain cheerfully and with the same efficiency the pharmaceutical service of the community. *Second*, that we maintain unity in our ranks and have faith in each other. This is no time for family squabbles or distrust of the "head of the house." Looking back, more especially in the light of recent medical happenings, it may be that our pharmaceutical discussions appear premature, and possibly immature, but we have got together and have progressed in the right direction. In whatever form the White Paper proposals outlined by the Government ultimately find their way on to the Statute Book, let us work harmoniously

and let pharmacy seek to establish for itself a place worthy of its past record and its professional status.

*John Anderson,
Chairman.*

Pharmaceutical Society of Northern Ireland

WE come to another milestone and I hope the last under war conditions. The news from the various fronts is of such a nature as to justify our hopes of an early victory. With the return of peace many problems will confront us, one of which must have the immediate and active sympathy of all, namely the rehabilitation of those of our members—men and women—who answered the call of King and Country in the hour of need. Early in the New Year the Government of Northern Ireland intends to introduce a new pharmacy bill, and in the not too distant future further legislation which will probably expand National Health Insurance work considerably. Both these measures will have the most careful consideration of your Council and the utmost endeavour will be made to safeguard your interests. To all my fellow pharmacists at home, in Great Britain, and her Dominions I send my very best wishes for the coming year.

*Charles Abernethy,
President.*

Pharmaceutical Society of Ireland

In availing myself of the facilities which you, Mr. Editor, have so kindly placed at my disposal for sending heartiest New Year greetings to our members, I thank God that, in spite of the many difficulties and anxieties, we in Ireland have come through the past year with added strength. We are on the threshold of the big event of reorganisation of health services. This vitally concerns Irish chemists. With the continued present admirable cohesion between the pharmaceutical associations, we can face the future with sober confidence. One of our unsolved problems is the continued abnormal entry into pharmacy. This must have serious consequences for all concerned, unless our members realise the gravity of

New Year

the present position. They have the solution, by drastically limiting the number of apprentices entering. The unobtrusive work accomplished by our Benevolent Fund in lightening the burden for our less fortunate colleagues and their dependants demands of us a special effort in supporting so worthy an object. I appeal to our members to give generously again this year.

*C. J. Cremen,
President.*

Chemists' and Druggists' Society of Ireland

My heartiest greetings to all the members of the trade in Great Britain, Eire and overseas. I do feel that on an occasion like this it is well to look back over the road that we have travelled in order to ascertain what we have learnt from our experience. In thus taking stock after five years of this appalling war we shall find one cardinal fact emerging, and that is that we do not function as chemists merely, but as human beings; co-operating members of an inter-dependent world-wide family. For evidence of this we have only to refer to the great social schemes now being evolved and planned to come into operation at no distant date—schemes which, whether we agree with them in their entirety or not, are bound to broaden our whole outlook, not only on pharmacy but on life itself.

Indeed the very evil of the war has compelled us to take a saner, more comprehensive, and more human view of affairs, a view which surely augurs well for a happier future in all our business relations.

*Fred. Storey,
President.*

National Association of Women Pharmacists

ONCE again I welcome this opportunity of sending greetings and good wishes to all pharmacists. The past year has given us considerable food for thought. Pharmaceutical organisations are much concerned with the place pharmacy shall take in the new Health Service. I hope that all pharmacists will consider closely any plans put forward for a pharmaceutical service within the new scheme. It is essential that

Greetings

the position should be viewed from all angles. Each section in pharmacy should play its part.

There is a tide in the affairs of men,
Which, taken at the flood, leads on to fortune;
Omitted, all the voyage of their life
Is bound in shallows and in miseries.
On such a full sea are we now afloat,
And we must take the current when it serves,
Or lose our ventures.

I believe that if we plan with selflessness, courage and foresight there can be a great future for pharmacy.

*Mary C. Islip,
President.*

Guild of Public Pharmacists

It is the earnest desire of the Council of the Guild of Public Pharmacists to do all in its power to ensure that the pharmaceutical service which will form so vital a part of the proposed National Health Service should be an efficient one. In conveying a message of greeting and good wishes to colleagues in other branches of pharmacy, it seems appropriate to assure them also of the Guild's wish to co-operate as fully as possible in seeking a solution to the many problems which will certainly arise during the forthcoming year.

*Richard H. Henriksen,
President.*

British Association of Chemists

THE reconstruction of economic and social life which will follow the victory of 1945 must be planned and prosecuted with the same energy and vision as the direction of the war. In this all sections of the nation will play their part, but the scientist and the technologist have a special part to play, because of the immediate industrial, economic and social development due to follow the results of their labour. It is therefore important that we as chemists should take thought on these things and seek to collaborate with our colleagues in achieving a just and planned economy not only for our own sphere, but also for all peoples. To this end we must seek representation on the councils of the nation, and above all prepare ourselves to think nationally and constructively and not parochially about

the results of our work. It is only by formulating an agreed policy and by concerted action in its logical application that we can achieve the right to take that share in the administration of affairs which should be ours. To their colleagues in the pharmaceutical and drug trades, the British Association of Chemists sends fraternal New Year greetings. Let us redouble our efforts for victory in 1945, and then work together in peace with the same enthusiasm as we have in war.

*R. G. W. Norrish,
President.*

National Joint Industrial Council for Retail Pharmacy

ATTEMPTS have been made on a number of occasions in the past to set up some form of machinery for regulating working conditions for those engaged in retail pharmacy. It was not, however, until just over twelve months ago that definite steps to that end were taken by the formation of a Joint Industrial Council for Retail Pharmacy in England and Wales. The Council has now issued the first agreement which will become operative in the New Year. In the course of the negotiations our aim was aptly stated to be that of "putting in a bottom" to what has hitherto been, for the most part, a calling with very nebulous foundations so far as regulated conditions of employment were concerned. It is quite wrong to look at the agreement and ask if the terms are the best that pharmacy can offer; a proper view is that they represent the Council's view of the worst that should be offered now and, it is hoped, in the post-war period. Clearly the remuneration and working conditions of those engaged in retail pharmacy depend on the economic stability of the calling. Within the next year or two developments are certain both as regards the provision of the pharmaceutical service and on the retail distributive side of the calling. It will be essential, in my view, for all engaged in retail pharmacy to recognise that their interests are mutual if progressive development is to be assured. In expressing the season's greetings to all engaged in pharmacy I would add that it remains for all of us to ensure that pharmacy is not weakened by failure to resist attacks from other interests, and that, the foundation having been provided, we build upwards for the future.

*G. A. Mallinson,
Chairman.*

Society of Apothecaries of London

I AM happy to be able to send greetings on behalf of the Worshipful Society of Apothecaries to the readers of THE CHEMIST AND DRUGGIST. Many of us had hoped that 1944 would have seen the cessation of hostilities in Europe, but it would appear that this is likely to be postponed until 1945, when I think we may confidently look forward to the return of peace. We shall doubtless find ourselves in a changed world; but much that is traditional and historic will remain, and in this connexion the Society has been most fortunate in preserving, almost intact, its beautiful and historic Hall, which stands on the site of the old Black Friars Monastery. Let us hope, then, that having survived the ordeal of war, the members of this Society and the readers of THE CHEMIST AND DRUGGIST may continue to make their closely allied contributions towards the maintenance of the people's health in the post-war world.

*J. P. Hedley,
Master.*

Association of Pharmaceutical Employees

THE Association of Pharmaceutical Employees gladly accepts the invitation to extend to all employed in pharmacy cordial greetings for the New Year. The past year has been marked by developments which are bound to have far-reaching consequences for the employees concerned. The Joint Industrial Council is now well on its feet, and it is a happy coincidence that the first day of the New Year ushers in the first comprehensive agreement laying a foundation in pay and conditions throughout England and Wales. Other questions of prime importance are also engaging attention, particularly problems associated with post-war resettlement. Such questions as reinstatement machinery; the rehabilitation and training of disabled men and women; recruitment and training of juveniles, and so on, are the subject of close and anxious consideration. We face the New Year with high hopes nourished by the conviction that the foundation already laid offers a basis on which to build a better world for the pharmaceutical employee. Particularly do we take pride in being privileged to play a not unimportant part in creating a brighter future for those

whom we trust will soon be returning from war service.

*G. Maurice Hann,
General Secretary.*

Association of Scientific Workers

THE Association of Scientific Workers extends its heartiest good wishes for the New Year to the pharmacists of Britain, and congratulates, in particular, those serving in the armed Forces in all parts of the world. The immediate future is likely to bring big changes in the medical services of the nation and consequent adaptation of pharmacy to meet new needs. It is not sufficient to hope that the rightful place of the pharmacist in serving the needs of the people is recognised. It is necessary to work to ensure that such recognition is given. Pharmacists are realising that they must organise themselves strongly in order to achieve the standing and remuneration commensurate with their training and the social importance of their work. May the coming year record a big step forward.

*Douglas McClean,
Chairman.*

National Pharmaceutical Employees' Union

THROUGH the courtesy of THE CHEMIST AND DRUGGIST it is again my privilege to send goodwill greetings to members of the N.P.E.U. and extend same to all the craft. May 1945 bring the blessings of peace coupled with co-ordinated policy to place pharmacy in its rightful setting. Reviewing the principal events of 1944: The Council election was galvanised by non-proprietors entering the lists as progressive candidates. Renewed and persistent efforts will, however, bring success to non-proprietors in future elections. The J.I.C. agreement, basing pharmacists' services on a par with provisions' and grocers' standards, will neither help N.H.I. contractors' claims to increased fees, nor strengthen their negotiating prestige on N.H.S. Published accounts of N.P.U. and Branch Representatives' meetings reveal catalytic changes from preconceived opinions, and form a prelude to a democratic/conjoint committee. I conclude with two toasts: "Absent Friends," "The Craft."

*G. H. Armitage,
Chairman.*

Chemical Workers' Union

IN the name of the Chemical Workers' Union and its members, we send, to all engaged in the manufacturing, wholesale and retail drug trade, greetings and good wishes in the coming year. Although subject to war-time difficulties of supplies and labour, all concerned in the trade have rendered the community high-grade services of immense social importance, that will stand to their credit for all time. With the development of new health services projected by the Government, the drug trade can be relied upon to meet efficiently any and all new demands made on it. Throughout the trade there exists a wide and deep sense of goodwill between employers and employed, the latest indications being the newly formed Joint Industrial Council for Retail Pharmacy, and with the maintenance of this goodwill employers and workers can face the future with reasonable and hopeful confidence.

*H. J. Garnett,
President.*

Scottish Pharmaceutical Federation

IF hostilities in Europe should cease within a reasonable time, it may not be so very long before it will be possible to return to pharmaceutical normality, subject, of course, to the special problems facing us at the present time. One of the most difficult of these is the question as to what our position will be under the proposed State Medical Service. In this connexion, we must make certain that our professional ability and status are fully recognised and that adequate remuneration is granted for our services. I am of the opinion that the present opportunity should not be lost of strongly impressing upon the Government that, in the public interest, the retail sale of all drugs and medicines should be confined to pharmacists and that legislation to this effect should be passed. I feel that these matters, and other problems which have arisen as a natural outcome of the war, can be satisfactorily solved if a philosophic understanding and some hard work are brought to bear on them. Even a savant would hesitate to foretell the future, but I feel sure that we pharmacists have reasonable grounds for looking forward hopefully to the "Brave New World" and to our past record of public service as a profession being recognised both by the

Government and the people. With every good wish to all pharmacists for 1945.

*Chas. A. Buick,
President.*

Pharmaceutical Corps

ON behalf of the officers may I extend seasonal greetings to members of the Pharmaceutical Corps and to the large number of pharmacists who attended our classes held at the various hospitals. We are sure that the training will prove of lasting value, and we like to feel that the many friendships which have been formed will continue. There is unhappily an absence of *esprit de corps* in pharmacy which we have done much to dispel. Many of us have found a common interest with colleagues in the various fields of pharmaceutical activity, and we have learned the value of co-operation and mutual understanding. The Corps looks forward to a year of increased activity, and extends hearty greetings to pharmacist members present and future. May the coming year bring abundant peace, happiness, and content, and herald the vanquishing of the forces of evil and an end of man's inhumanity to man.

*J. Ross-Mansell,
Secretary.*

Ulster Chemists' Association

I AM very happy to have this opportunity to extend my warmest greetings and best wishes for 1945 to members and associates of the Ulster Chemists' Association, and on their behalf to all our friends in pharmacy. We in Northern Ireland are deeply grateful for the willing help given to us by our cross-channel friends—the National Pharmaceutical Union, manufacturer and wholesale members of the Chemists' Friends Association and THE CHEMIST AND DRUGGIST. We are fully aware of the difficulties and dangers under which our English friends have had to carry on, especially those in London and Southern England. It is our confident hope that these difficulties and dangers will be greatly minimised during the coming months. Perhaps our most important post-war problem will be that of pharmacy's part in a National Health Service. With the co-operation which exists in Northern Ireland between members and associates of the U.C.A., I have no doubt that this problem will be dealt with competently. I leave this thought for the New

Year for the consideration of members and associates of the Ulster Chemists' Association.

*Arthur E. Johnston,
President.*

Irish Drug Association

IT is with great pleasure that I take this opportunity of sending my greetings and good wishes for 1945 to all the members of the Irish Drug Association. Much has been written about the possible difficulties which will arise during the post-war period. Some people consider that normal trading conditions will rapidly return, but I believe that before they do we will have to face the attempted encroachment into the chemists' business by other trades. This may even become one of the greatest problems which we will have to face, but it is also one to which your Association is most keenly alive. The coming year may see the return of many old pre-war preparations and the influx of new ones. In the wave of enthusiasm to put these on to our shelves, we should not forget those preparations, largely of Irish manufacture, which have been our standby during the past five years. New and different times may be ahead, but we should not forget our old and tested friends. It is with these thoughts that I wish you all a happy and prosperous New Year.

*Lyall G. Smith,
President.*

Wholesale Drug Trade Association

ANOTHER year confronts us and it will be one with great potentialities for good or ill which will call for maximum collective wisdom and effort from every one of us. Fortunately the most anxious and fateful period has passed with the triumphant invasion of the "Fortress of Europe" and the liberation of France, Belgium, and a large part of Holland, and we commence the year braced for the task of restoring our lost trade, and building up a healthy and prosperous industry. This can only be attained by a united front. The problems before us are manifold and extremely complicated, but I am sure there is no cause for dismay. What we need is that the Government will realise that the trade has the ability to deal with problems of the post-war period, provided they will remove, without unnecessary delay, the restrictions which war conditions demanded.

We in the W.D.T.A. have carried on our work without break through 1944 and have prepared the way so far as we are able. We enter 1945 with no facile optimism but with a clear recognition of its possibilities. I most cordially wish all members of this and kindred associations prosperity and a happy new year.

*S. W. Whiffen,
Chairman.*

Chemists' Friends Association

I DESIRE on behalf of this Association to express sincere greetings for the New Year, and best wishes for the prosperity and happiness of all branches of the trade. It was hoped that by this time we might have seen a cessation of hostilities in Europe, and that the pathway of a lasting peace might be gradually unfolding. But a little more patience is demanded from us, and as we know more of the conditions that have been suffered in the occupied countries, we must feel deeply thankful that whatever we may have endured individually, we have been spared the untold miseries of enemy occupation. The Association would like me to send a word of goodwill to the men and women so bravely serving overseas, particularly those who left our pharmacies and warehouses to join the Services, and to wish them a speedy return. For 1945 we look forward to a victory year, with the hope that the victory may be blessed with a true peace, to which we may all contribute in our different spheres.

*Fredk. J. Smith,
President.*

Proprietary Articles Trade Association

EACH and every one of us engaged in the drug, pharmaceutical and allied trades, whether manufacturer, wholesaler or retailer, is looking forward to 1945 as the year of victory and peace and the possibility of an early return to more normal conditions in our industry. In looking back over the past five years, we can take just pride in the achievements through these years, brought about by the co-operation and determination of our Forces, our peoples and our Allies. The P.A.T.A. also can look back over nearly fifty years with no small measure of pride in its own achievements in the benefits and advantages secured to the trade as a whole during that long period. These likewise have been possible

through the co-operation of its constituent partners. As president of an Association comprising all three sections and, consequently, with outlooks on trade policy not always coinciding, I would like to express the hope that the past friendly co-operation of all sections may long continue, as by it, I am sure, the many new and varied problems which are bound to arise with the return to normal industrial conditions, can be faced with the fullest confidence.

*P. G. Hunt,
President.*

Proprietary Association of Great Britain

MAY I, on behalf of all members of the Proprietary Association of Great Britain, send to our many retail and wholesale friends, at home and overseas, our cordial New Year greetings. The time is, I trust, rapidly approaching when complete victory will enable us to resume our trading relations on the intimate basis of pre-war days without the impediment of the numerous difficulties with which we and you have had to contend during recent years. When that time comes I am confident that the mutual spirit of co-operation which has been so evinced during the war will enable us to overcome the problems which will then arise. Meanwhile I welcome the opportunity which the sending of this message provides to say, on behalf of my Association, thank you for the consideration and understanding which you have shown during what has been, to us all, a very trying period.

*F. A. S. Gwathkin,
Chairman.*

Photographic Dealers' Association

GREETINGS to fellow pharmacists and to all members of the photographic trade. Those of you who are members of the P.D.A. are a happy family with a house of your own. It is my pleasure to invite you to visit P.D.A. House, the establishment of which in 1944 was an outstanding event in our history. For the first time the photographic trade has been provided with a focal point for its members, their friends and business associates, combining the business and social amenities of a trade club. Here will be held exhibitions of post-war apparatus, colour photography and cinematography, which will be associated with

educational schemes designed to keep members abreast with the times. Amongst other outstanding achievements of our Association during 1944 have been effective co-operation with regional committees. I wish you all happy, prosperous days, in the realisation of which the P.D.A. will make every effort to assist its members.

*James Paterson,
President.*

Association of British Chemical Manufacturers

ON behalf of the Association of British Chemical Manufacturers, I send sincere greetings to all our friends at home and abroad. We look forward to the end of the European war and to the resumption of our normal services to the community. I would send a message particularly to our friends in the Dominions, and say that the Association is considering the desirability of forming Empire sections and establishing branch offices in the Dominions. This is part of the Association's expressed policy of co-operating in chemical developments overseas by contributing guidance and information based on long experience dating back to the first world war. The expansion of world trade as a whole is our objective, and chemicals have an essential part to play in its achievement. The Association looks forward to making its contribution towards that end.

*Percy C. C. Isherwood,
Chairman.*

Drug and Fine Chemical Manufacturers' Association

I AM pleased to take the opportunity again offered by THE CHEMIST AND DRUGGIST to extend to the industry, its workers and all those from the industry serving in H.M. Forces, the greetings and best wishes of the Drug and Fine Chemical Manufacturers' Association, believing that 1945 will see us once more engaged on our peace-time activities. Looking back over the five years just completed, it is obvious that through the team-work of the country we are now within sight of our goal, and it is only by tackling the future in the same spirit that we can hope to make full use of our opportunity to create a prosperous and peaceful community.

*G. Goodman Whiffen,
Chairman.*

Surgical Instrument Manufacturers' Association

THE Surgical Instrument Manufacturers Association has again the pleasure to send its greetings to its colleagues in the pharmaceutical world. We are together looking forward to the happy days, of which the glow is already appearing on the horizon, when the hundreds of thousands of tons of paper used for Government forms, which we are now employed in filling up, will be diverted to the probably more useful purpose of wrapping, packeting and dispatching of our goods to our customers; when clerks released from filling up these forms will be employed in the now novel but somewhat useful purpose of corresponding with our clients. We feel sure that the slight relaxation which we all have already enjoyed has only more forcibly called our attention to the burdens which we are mutually bearing. We trust that the year to come will see us once again free men, free from restrictions, regulations and war-time rules. May we exchange anticipatory congratulations this happy season.

*H. Guy Drew,
Chairman.*

British Chemical & Dyestuffs Traders' Association

I GLADLY take this opportunity of sending New Year greetings to members of the Association and to numerous friends in the chemical trade. Although the war is by no means over we can confidently say that this country and her allies have brought victory within a measurable distance, and this fact must call for an ever-increasing attention to the huge task of reconstruction. Our overseas trade will have to be rebuilt, and no one can achieve this better than the established British merchant houses who have the requisite knowledge and experience of the export markets. The chemical merchant has a special part to play, since new markets for chemicals will be developed, and a number of home producers will be turning their attention to the export field for the first time and will require the services which the chemical merchant is able to offer. We can all enter into the spirit of the New Year confident in our strength to surmount our future problems and achieve a lasting peace.

*Victor Blagden,
President.*

Perfumery and Toilet Preparations Manufacturers

AM delighted to respond to the opportunity you give me to send cordial greetings to all concerned in the perfumery and toilet preparations trade—whether as manufacturers, wholesalers or retailers. 1944 has been a momentous year for the nation. Rehabilitation is the password for 1945, and the toilet preparations trade looks forward to playing its part. Difficulties there will be, but we should be able to make headway towards restoring normal production. Export trade must take a prominent place in the plans of manufacturers, and I am confident that the industry's contribution to the post-war export trade of the nation will be a worthy one. At the same time the industry has its place in the rebuilding of the standard of living of the community. The demand for toilet preparations is ever rising, and it is our aim to re-establish as soon as circumstances permit a home trade in which manufacturer, wholesaler and retailer can work together in harmony.

*Leonard J. Matchan,
Chairman.*

Cosmetic & Toilet Preparations Trade Association

IN looking forward to 1945, one must of necessity take a glance backward to consider the happenings of 1944. It was once truly said that the value of the past lies in the fact that it provides lessons for the future. The dawn of 1945 finds us on the threshold of a period pregnant with possibilities. This year should see a movement towards the freeing of trade restrictions and a gradual return to normal trade conditions. This Association is fully alive to the possibilities, and no effort will be spared in ensuring that our members' interests are protected and strengthened. The typical British characteristics of vision and enterprise will be needed as never before, and I am confident that the cosmetic industry will play its part in the promotion of national well-being. I would like to take this opportunity to extend my good wishes and greetings for the New Year both to THE CHEMIST AND DRUGGIST and to the trade.

*F. L. Blackwell,
Chairman*

British Brush Manufacturers' Association

IT is with pleasure that I accept the Editor's invitation to extend a New Year greeting to the readers of THE CHEMIST AND DRUGGIST on behalf of the British Brush Manufacturers' Association. The brush and drug trades have much in common; in particular they both exist mainly for the protection of health and preservation of hygiene, and as such they have been found to play an important part in the life of the nation, both in peace and war. We all anticipate that 1945 will bring the longed-for victory, but, undoubtedly, it will be some time before shortages of consumer goods are overcome. May I assure all our friends of the drug trade that, until then, the brush industry will continue to make every effort to satisfy the public demand.

*R. Addis,
President.*

National Pharmaceutical Union

I APPRECIATE the opportunity of sending greetings and good wishes to your drug trade readers. Pharmacists in private practice have had to contend with unprecedented difficulties, and they have reason to be proud of the way in which they have surmounted their problems, and for the efficient and willing service which they have rendered in these critical days. The past year was a strenuous and exacting one for the officers and Executive of the N.P.U., but they have been greatly encouraged by the success of the Pharmaceutical Committee and N.P.U. Conferences, and by the confidence which was shown by delegates from all parts of the country. I can assure our members that the same high standard of service which the N.P.U. has given during the last twenty-three years will be continued in the future. Great changes may be expected in the health services of the country in the future. We believe that the changes should provide a first-class pharmaceutical service to the public and that the pharmacist should have his rightful place in the community. We shall continue in co-operation with others to work for these objects. Let us make 1945 a year of goodwill within our calling, and when it comes to an end we shall find it has also been a year of achievement.

*W. John Tristram,
Chairman.*

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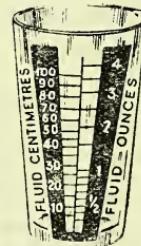
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades and Industries in Great Britain, Eire, the British Empire, and foreign countries

Official organ of The Pharmaceutical Society of England, The Pharmaceutical Society of Northern England, The Chemists' and Druggists' Society of England and of other Chemists' Societies in the Empire

COL. CXLI DECEMBER 30, 1944 NO. 3386

The fact that goods made of raw materials short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

The Year Ahead

We publish in this issue New Year greetings from the leaders of the professional and business organisations of the drug trade. This annual feature was introduced in 1940, when the paper shortage made it desirable in the national interest that the pleasing old custom of exchanging trade and personal messages of goodwill should for the time being be discontinued. In 1940 the number of "Greetings" published in THE CHEMIST AND DRUGGIST was nineteen; this year we take pride in publishing no less than thirty-one messages, covering practically every section of pharmacy and the drug and allied trades: manufacturing, wholesale distributing and retail, employers and employees.

Looking back over the closing year, a year of hopes deferred and of difficulty and changing conditions for those who have carried on on the home front, we have endeavoured to provide instructive and interesting weekly reviews of drug trade news and the many and widespread activities of the world of pharmacy, with our independent policy governed solely by what was considered to be in the best interests of the trade and those connected with it.

After over five years of the strain of war, we may look forward with the utmost confidence to victory for the allied nations in 1945. Our first thoughts at that time will be of deep gratitude to our men and women in the Forces, who have served in all quarters of the world so that the British Empire shall endure. When they return it must be our first duty to do everything possible to ensure their rehabilitation.

Post-war Activities

The great increase in the production of pharmaceutical products, and the many developments in other manufacturing sections of the drug trade during the war, will form the basis of a powerful post-war industry capable, not only of meeting all home requirements, but of providing almost unlimited quantities of high-quality goods for export. Manufacturers, in co-operation with British exporting houses, will be making great efforts to capture markets in which German goods previously predominated. It is essential to the future welfare of the country that the strength of the industry as a whole should be exploited to the fullest extent in supplying overseas markets.

The post-war years may well see great changes in the sphere of professional pharmacy and in the retail trade. Out of the welter of conferences and meetings on the subject of the proposed N.H.S. there is gradually emerging a policy in which the demand for the full recognition of the pharmacist, as such, for the service he is specially fitted to provide, and for adequate remuneration for his knowledge and skill, are the main features. A start was made during the closing year in regularising conditions of engagement of pharmacy employees, and there is no doubt the inception of the J.I.C. for Retail Pharmacy was a step in the right direction. We can only hope that, during the coming year, employees will have the good sense to get together under one banner.

The immediate post-war years will be no time for despair: the difficulties and problems that are bound to arise will demand of us all a high sense of duty. In its eighty-sixth year of publication, THE CHEMIST AND DRUGGIST wishes its readers, at home

and overseas, health, progress and contentment; and to former members of the drug trade who are at present serving with H.M. Forces a speedy and safe return to their homeland.

"C. & D." Poisons Guide : A New Edition

IN announcing the issue of the fourth edition of *The Chemist and Druggist Poisons Guide* it is necessary to emphasise that this is, in effect, an entirely new production, owing to changes in poisons law affecting more than half the entries in the previous Extended List of Poisons. In fact, the previous edition of the *Guide* was withdrawn from circulation some time ago owing to its having become obsolete.

Much Enlarged List

Many factors contribute to this upheaval in the classification of poisons, the most important being additions to the Poisons List and amendments to the Poisons Rules. The several Addenda to the British Pharmacopœia and Supplements to the British Pharmaceutical Codex, as well as the issue of war-time formularies, have added considerably to the task of revision. The newcomers include a veritable spate of sulphonamides. The result is that the entries in the Extended List of Poisons now number over 5,000 (of which some 1,500 are new). Each item is complete in itself, specifying the precise status of the poison or poisons. In addition, the entries relating to the group poisons of the Poisons List, such as the barbiturates and sulphonamides, comprise a complete classification of chemical constitution and proprietary names which is invaluable in identifying new and possibly unknown designations.

The original *C. & D. Poisons Code* is retained unaltered—a tribute to its universal utility, since it has assimilated without modification the amendments effected in poisons law since 1933. The format of the original *Guide* remains similar to the original, but the pages now number forty-eight—double the number of pages in the first *Guide*. The Glossary has been brought up to date, as also have the other specific features (wholesale deal-

ing, veterinary medicines, characters and containers for poisons, poisons labelling system, and Poisons List).

Legislation by Reference

The attitude of the retail trade to "legislation by reference" via Statutor Rules and Orders is rapidly growing into revolt, and there is no greater example of confusion than the provisions of poison law, with its complications of Acts, Schedules, Rules, Lists, and Regulations (all amended and re-amended). These require countless references and cross-references to be borne in mind, not only for the multitudinous additions, but also because a re-casting of their effect upon the former classification of poisons becomes necessary. It is safe to state that, without the *C. & D. Poisons Guide*, present-day poisons law would be unworkable by pharmacists at the counter, because only by its help can pharmacists be sure of undertaking, without risk, the responsibilities thrust upon them. The Fourth Edition of *The Chemist and Druggist Poisons Guide*, which is the only publication of its kind with any pretensions to completeness, is priced at 7s. 6d.

A recent case at Stirling (*C. & D.*, December 9, p. 602) emphasises the necessity of paying strict attention to paragraph (e) of the section dealing with the drugs to which Part III of the Dangerous Drugs Act, 1920, applies. A full explanation of the paragraph and a warning about its implications are given in an addendum included in the *Guide*, along with the changes necessitated by publication of the B.P. Seventh Addendum.

C. & D. QUIZ, NO. 44

1. What is the common name for vitriolatum veneris?
2. What is the Codex title for peptonising powder?
3. What are Andrew Clark's liver pills?
4. Under what title do Brompton cough lozenges appear in the B.P.C.?
5. What are the characteristics of amyasthenia?
6. Who was Mendeléeff?
7. What is the chemical composition of turquoise?
8. What is *thion hudor*?
9. What is silicon chloroform?
10. What is philosopher's wool?

(Answers on p. 702)

NORTH DOWN CHEMISTS' ASSOCIATION

MEETING of the North Down Chemists' Association was held in Bangor, co. Down, on December 13, the president (Mr. S. H. Forrest) in the chair. Messrs. A. E. Johnston (recently elected president, Ulster Chemists' Association) and Mr. James McClenahan (secretary, U.C.A.) were present. THE PRESIDENT welcomed Mr. Johnston and congratulated him on the honour recently conferred on him by the Ulster Chemists' Association.

Trade Matters

The price of liquid paraffin was discussed, and MR. McCLENAHAN explained that a recent reduction made in U.C.A. prices had been made in conformity with the Prices of Goods Act. It was agreed that the U.C.A. prices should be adopted. It was also agreed that during Christmas week the evening closing hours for chemists should be at the discretion of individual members, though it was felt that there would be no need for late opening. Closing arrangements for Christmas Day and Boxing Day were made as in 1943.

U.C.A. President's Address

MR. A. E. JOHNSTON thanked the president for his kind welcome. He was glad chemists in North Down were so well organised, and hoped during his year of office to organise all U.C.A. members into similar local groups. His view was that the executive committee could gain greatly by contact with such groups, through which the minds of members on important matters could be rapidly ascertained. The alternative method of taking a referendum had not, unfortunately, always produced the 100 per cent. response which was needed. Little information was yet available concerning the proposed extended National Health Service, but chemists would need to insist that the dispensing of medicines and sale of drugs and surgical appliances should be done by existing pharmacists, and that panel dispensing fees and prices for drugs and appliances should be guaranteed. He thought it unlikely that any extended medical service would be in operation until late in 1945, and invited suggestions as to dispensing fees and method of remuneration. His own feeling was that something should be done immediately to revise the present N.H.I. contract terms, and a further approach would shortly be made to the Ministry of Labour on this matter. He was glad to

know that early closing was now the rule in North Down. An extended National Health Service might indicate a need for late services for urgent medicines, and his predecessor as U.C.A. president (Mr. H. P. Crossin) had advocated a rota system for that purpose; he was in full sympathy with the idea. "I suggest that you arrange between yourselves a rota system for Bangor. Possibly you will need to have two or three people open late each week. I suggest that the general closing hour of 7 o'clock be continued, and those on rota duty remain open for an hour or more longer as experience shows to be necessary." Mr. Johnston emphasised that for late service there should be a late dispensing fee not less than two-and-a-half times the ordinary fee. He feared a post-war flooding of the market with new proprietary medicines.

THE PRESIDENT (Mr. S. H. Forrest) thanked Mr. Johnston for his address.

Health Advisory Council Action

At the request of the president, MR. McCLENAHAN (secretary, U.C.A.) read the entire correspondence that had passed between the U.C.A. and the Ministry of Health and Local Government concerning the constitution of the Health Advisory Council. It was agreed that the U.C.A. had stressed vigorously the need for the appointment of two practising pharmacists on the Health Advisory Council, and general indignation was felt at the refusal of the Minister of Health to accede to the request. After discussion, it was agreed that a copy of the correspondence should be sent to the North Down and Ards members of Parliament, together with a covering letter signed by all members of the North Down Chemists' Association strongly urging the appointment of two practising pharmacists to the Health Advisory Council.

MR. A. E. JOHNSTON urged as many members of the N.D.C.A. as possible to attend the annual meeting of the U.C.A. He hoped that quarterly or half-yearly meetings of representatives of local organisations would be arranged to take place in Belfast during the coming twelve months. MR. R. HALL (secretary) expressed approval of the suggestion made by Mr. Johnston concerning the rota system; he felt that members could, as a start, arrange a rota for Thursday afternoon and Sunday duties. It was agreed that the matter should be put on the agenda for the next meeting.

PLASTICS IN RESTORATION SURGERY

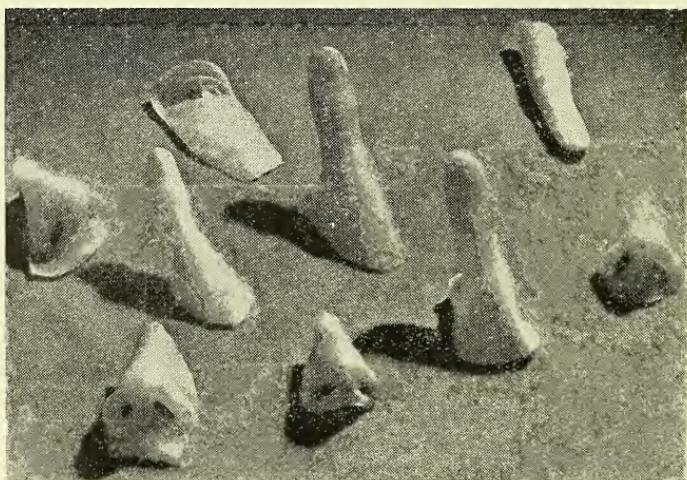
POLYVINYL chloride (p.v.c.) compounds have found many war-time applications. Perhaps one of the most significant is in the preparation of artificial organs such as noses, ears, and fingers. Many disfiguring injuries of war severely tax both the skill of the plastic surgeon and the endurance of the patient, and treatment generally involves a long series of operations and continual nursing care, during which the patient's ability to co-operate may be impaired by realising the nature and extent of his disfigurement. In addition to loss of tissue due to burns and injury, there is often a further loss by disease, which it is generally impracticable to remedy by reconstructive surgery, necessitating instead some form of false features. Substances used in the past for making prostheses have included metal painted to resemble tissue, gelatin-glycerin mixtures, vulcanite, wax, dental acrylic resins, and rubber latex. Of the hard materials, the dental acrylic resins, if prepared with skill, give the best results where a hard restoration is suitable. Rubber latex provides a good but much less permanent restoration. Such prostheses may be attached to the face with adhesives or fitted to the frame of a pair of spectacles. When the attachment is to the skin by means of an adhesive, the weight of the restoration must obviously be small. Imperfections in fitting the appliance and in matching the colour are generally corrected by cosmetic creams and powders, and the fatty basis of the

cream may have a destructive effect in the fine edge of the rubber latex restoration. There is also a tendency for prostheses made from rubber to darken on ageing.

Polyvinyl Chloride Compositions

In view of the inertness and flexibility of plasticised polyvinyl chloride composition it was considered that they should be suitable for making prostheses, and work has therefore been done on the material by Imperial Chemical Industries, Ltd., and the results are recorded with the aim of assisting any who wish to pursue the investigation. It is well known that polyvinyl chloride swells in the presence of plasticiser such as tricresyl phosphate, dibutyl phthalate, or dihexyl phthalate, and may be dissolved at elevated temperatures to form flexible rubber-like products. The physical properties of the resultant materials depend upon both the proportions and the type of plasticiser used. Completely "gelled" plasticised compositions are thermo-plastic, and can be moulded by compression or injection methods. Polyvinyl chloride plasticiser mixtures can also be prepared in the form of pastes, varying in consistency from thick cream to putty. The pastes can be transformed by heat to flexible rubber-like products, and shaped during the process by a simple moulding operation. It was thought that the technique would be suitable for making prostheses, though it was realised that care would be needed in choosing the ingredients for a composition used in contact with the human skin. The decision was therefore taken to use only phthalate esters (e.g. dibutyl and dihexyl phthalates), while calcium stearate was substituted for lead salts as heat stabiliser, because it is less toxic, although a less efficient heat stabiliser.

Problems investigated included devising a composition to give an adequately flexible restoration, while having a reasonable shelf life; developing the best

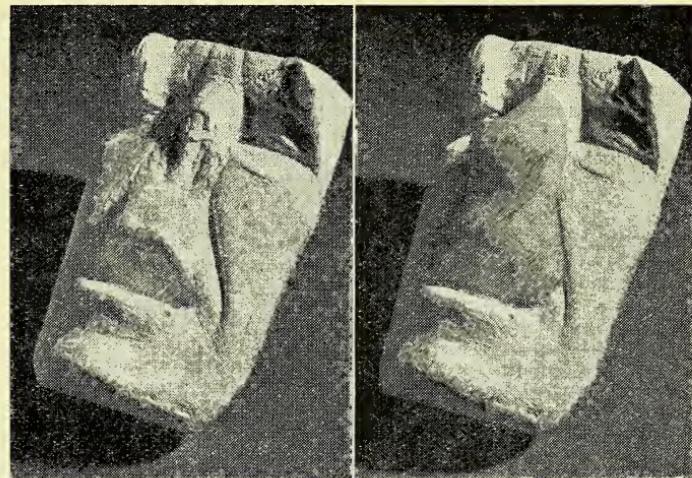


Polyvinyl chloride models for replacement of injured or lost organs or parts.

ation technique (i.e. the optimum temperature required to produce a restoration of maximum strength): in edges, which may be required for attaching the prostheses to the skin, are insufficiently strong unless a relatively high temperature of gelation is employed; giving a pleasing colour; and solving an accurate-fitting method. Using dibutyl phthalate instead of the more usual tricresyl phosphate as plasticiser involved difficulties in obtaining a paste with an adequate shelf life, and it was finally decided that, for the time being, the paste would be made from the polymer and plasticiser immediately before use. Polyvinyl chloride compositions are more flexible when plasticised with dibutyl phthalate than with an equal amount of tricresyl phosphate. A temperature of gelation of 40° C., though found to give satisfactory restorations, introduced difficulties due to discolouration of the composition, particularly in view of the omission of a lead-salt stabiliser. No very wide range of satisfactory pigments has yet been developed, but good results were obtained in a "natural" pink shade by the use of cadmium with a white pigment. Initially, titanium dioxide was used for the white pigment, but zinc oxide was found to give better colour stability.

Making an Artificial Nose

The method of making, say, a nose is as follows: The nose is made in wax or Plasticine, either modelled to the patient's face or to a plaster mask of the face secured by a mouldage method. The wax or Plasticine is then invested in one-half of a large dental flask in plaster of Paris. When the plaster has set, the Plasticine is removed and new hot wax poured into the cavity to replace it to a uniform thickness all round the mould, thickening where necessary (for example, at the tip of the nose), but realising that the thicker the wax, the heavier the final restoration will be. Plaster



Left, Plaster cast of injured face, and right, nose modelled into position.

of Paris is then poured in and the reverse half of the flask filled with plaster, and closed. When the investment has set entirely, the flask is placed in boiling water until the wax is entirely removed. Flask and plaster investment are then thoroughly dried in an oven, to ensure that the necessary temperature of gelation is attained. When quite dry, the mould is removed from the oven and allowed to cool to a temperature of about 50° C. A paste is made by stirring pigmented polyvinyl chloride powder with dibutyl phthalate in a mortar until smoothness is obtained. Equal parts by weight of the plasticiser and polyvinyl chloride are convenient proportions, but the flexibility of the result may be increased or decreased as desired by increasing or reducing the amount of plasticiser. Ability to form pastes depends on the type of polyvinyl chloride used, and specially prepared Corvic polymer was used in the experiments under review. The mould is filled with the polyvinyl chloride paste, possibly tinted in addition to match more closely the skin adjacent to the particular restoration. The flask is secured, replaced in the oven, and left for one hour at 140° C. After gelation, the flask is removed from the oven and allowed to cool, when the restoration is removed and trimmed. The prosthesis is fixed by means of adhesives, such as gum tragacanth or spirit gum, or by conventional methods involving attachment to spectacles. A better surface is given to the prosthesis when metal moulds are used, but they are less easy to make.

THE PAST YEAR'S MARKETS

THE year 1944, although marked by great occasions in other spheres, has been a particularly quiet one where general trade is concerned. Business in crude drugs and chemicals during the year may perhaps be described as "routine," with dealers filling regular orders to the best of their ability with the limited supplies available under present conditions. The hopeful outlook engendered by the vastly improved military situation, however, is reflected in the growing number of inquiries for commodities evidently required for post-war home and export trade. There is no reason to suppose that, given adequate facilities for replenishment of stocks, the London drug markets cannot expect a rapid return to reasonable prosperity, except in Far-Eastern produce, soon after the end of the European war.

Another Year of Stability

The pharmaceutical chemicals industry is once again to be congratulated on the maintenance of a stable price range in the face of mounting costs. Several price changes have occurred, of course, throughout the year under review, and the advances have substantially outnumbered the reductions, but the amounts involved have been far less than might have been expected in view of prevailing conditions. Distribution of these products has again been on an equitable basis. Throughout the year only two articles—cream of tartar and tartaric acid—have become the subjects of control orders. An Order by the Minister of Food (S. R. & O., 1944, No. 529), which became operative on May 21, prohibited the sale of these two chemicals in quantities exceeding 1 lb., except under licence, but the prohibition did not apply to retail sales. Sales otherwise than by retail, however, became subject to licence and could not be made at prices in excess of those specified in the Order. Later in the year (November 29) this Order was revoked and a new Order (S. R. & O., 1944, No. 1279) was made. No price alterations were involved. The table in next column shows the principal price changes in pharmaceutical chemicals during 1944.

One of the problems that has exercised the minds of manufacturers of pharmaceutical chemicals during the year has been the difficulty of obtaining prompt return of empties. Three factors are involved in this question: first, the impossibility of obtaining adequate supplies of carboys, drums and other containers in war-time; secondly, the

reluctance on the part of some consumers to take the necessary steps to ensure a quick turn-round of packages; and thirdly, the failure on the part of some carriers to appreciate the urgency of the "returned-empty" traffic. Some relief has been afforded, however, by arrangements made by the Ministry of War Transport Road Haulage Organisation for effecting the immediate return of empty packages, and by the railways in making every endeavour to give them priority.

Month	Pharmaceutical chemical	Advance or reduction
January ..	Strychnine salts	Advance
	Pyrogallic acid	Advance
February ..	Bismuth subgalate	Advance
March ..	Pepsin	Advance
	Lithium carbonate	Advance
April ..	Citrates	Advance
	Zinc salts	Advance
	Calamine	Advance
	Borax	Advance
	Boric acid	Advance
May ..	Tartaric acid	Controlled
	Cream of tartar (see also December)	Controlled
June ..	Methylated ethers	Reduced (Some gravities discontinued)
	Lactates (see also December)	Advance
	Theobromine (see also November)	Reduced
	Caffeine	Reduced
October ..	Opium alkaloids	Advanced
November ..	Phenolphthalein Theobromine (see also June)	Advanced Reduced (Caffeine unaltered)
December ..	Tartaric acid (Cream of tartar (see also May)) Lactates (see also June)	Control modified (no price alterations) Advanced

Crude Drugs Quiet

The general tendency in the crude drugs markets throughout the year under review has been to "mark time," carrying on as much business as possible under the twin difficulties of control and limited supplies. While regular users of crude drugs have been able to obtain their fair share of available products, "big" business has been largely curtailed on account of the supply position. Quite a number of items reaching this country have not appeared on the

markets, having been allocated to users on the basis of previous purchases. New controls on crude drugs have fortunately been few in number. Agar and certain

hibited, except under a licence or direction from the Minister of Supply. The maximum price of the controlled material was fixed at 30s. per lb. The Control of Agar (No. 2) Order, which came into operation on December 1, permitted higher prices for shredded and powdered agar, which, under the No. 1 Order, could previously be sold only at the strip price. An Order consolidating the Pepper (Control and Maximum Prices) Order, 1941, and its amendments, came into force on January 1. As a result of the improved supply of spices in relation to the demand, the Spices (Control) Order, 1943, was revoked during the month of September.

A study of the adjoining table will show that price changes in crude drugs during the year have not been on any large scale.

Many Import Licences Recommended

One of the effects of the war on the crude drugs markets has been to cause the virtual disappearance from regular trade of a large number of items. Some of these items, and many others, are being imported in limited quantities, the necessary import licences being recommended to the Directorate of Medical Supplies by the Botanical Drug Importers' Section of the London Chamber of Commerce on the basis of previous imports. Recommendations for the importation of the following crude drugs have been made during the year:

Article	December 1943	December 1944
Balsams:		<i>Per lb.</i>
Canada ..	10s. 6d.	10s.
Peru ..	8s. 3d.	7s. 9d.
Belladonna:		
Indian leaf ..	5s. 3d.	6s. 3d.
Cardamoms:		
Aleppy greens ..	5s. 6d.	5s. 6d.
Aleppy seed ..	6s. 6d.	6s. 6d.
Split seed ..	5s. 6d.	5s. 6d.
Chaulmoogra:		
<i>Hydnocarpus</i> ..	1s. 6d.	1s. 9d.
Cloves:		
Zanzibar ..	1s. 5½d.	1s. 4½d.
Colocynth ..	3s. 3d.	2s. 9d.
Ergot ..	5s. 6d. to 5s. 9d.	6s. 6d.
Nutmegs ..	1s. 5d. to 1s. 8d.	1s. 6d. to 1s. 9d.
Pimento ..	1s. 9d.	1s. 3½d.
Rhubarb ..	8s.	14s.
Senna:		
Alex. medium pod ..	3s. 9d.	4s.
Strophanthus seed ..	10s. to 10s. 6d.	7s. to 7s. 6d.
Chillies:		<i>Per cwt.</i>
Mombasa ..	120s.	110s.
Digitalis leaves:		
Portuguese ..	135s.	140s.
Gum acacia:		
Kordofan ..	82s. 6d.	80s.
Myrrh ..	£20	£20
Nux vomica ..	42s. 6d. to 45s.	42s. 6d.
Quillaia bark:		
Crushed or cut ..	90s.	95s.
Seeds:		
Coriander ..	80s.	75s.
Cumin ..	120s.	105s.
Dill ..	167s. 6d.	90s.
Fennel ..	87s. 6d.	85s.
Fenugreek ..	80s.	80s.
Squill:		
Portuguese ..	80s.	75s.
Indian ..	72s. 6d.	60s.
Stramonium leaves ..	95s.	80s.
Turmeric ..	50s.	60s.
Valerian root ..	100s.	110s.

Aconite root	Jalap (Mexican)
Areca nuts	Krameria
Balsam Peru	Leptandra root
Bitter orange peel	Liquorice root
Black haw bark	Lobelia
Cannabis indica	Nux vomica
Cascarilla bark	Rhubarb (Indian)
Coccillana bark	Senega root
Colocynth	Slippery elm bark
Gentian root	Storax
Grindelia	Stramonium leaves
Gum guaiacum	Uva ursi
Hamamelis	Wahoo bark
Henbane	Wild cherry bark
Hydrastis	

Steady Business in Oils

The comprehensive scheme of war-time control of essential oils, introduced in 1943, and operated under joint official and trade auspices, has worked well during the year under review. Remaining supplies of essential oils imported before the scheme came into operation (and therefore free of control) are now exceedingly meagre. Practically no change has occurred among the synthetics and isolates. Oils and fats have remained throughout the year under the control of the Ministry of Food.

similar specified substances came under statutory control at the commencement of the year. The Control of Agar (No. 1) Order (S. R. & O., 1943, No. 1740) aimed at conserving stocks of agar for the preparation of bacteriological media, the use of the substance for other purposes being pro-

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, December 27

DURING the few business days since our last report, little of interest has transpired on the markets. Quoted prices are generally unchanged, with the tone firm throughout. Conditions in the PHARMACEUTICAL CHEMICALS section have remained steady, with no price changes to record. ESSENTIAL and FIXED OILS are quiet.

Pharmaceutical Chemicals

ATROPINE.—Makers' quotations are steady at the following rates per oz.: ALKALOID, B.P.—1 oz., 35s.; 4 oz., 34s. 6d.; 25 oz., 34s. SULPHATE, B.P.—1 oz., 28s.; 4 oz., 27s. 6d.; 25 oz., 27s. METHYL BROMIDE and METHYL NITRATE, 1 oz., 65s.

BRUCINE.—Current rates per oz. are as follows: ALKALOID.—Under 25 oz., 1s. 4½d.; 25 oz. and under 100 oz., 1s. 4d.; 100 oz. and under 500 oz., 1s. 3½d. NITRATE AND SULPHATE.—Under 25 oz., 1s. 3½d.; 25 oz. and under 100 oz., 1s. 3d.; 100 oz. and under 500 oz., 1s. 2½d.

CALAMINE, B.P.C.—Current prices are as follows: 7-lb. lots, 1s. 8d. per lb.; 28-lb. lots, 1s. 6d.

CITRATES.—Makers quote POTASSIUM per lb., in 28-lb.—1 cwt. lots, as follows (containers in brackets): 3s. 3½d. (1-lb.); 3s. 2d. (4-lb.); 3s. 1d. (7-lb.); 3s. 0½d. (14-lb.); 3s. (28-lb.); IRON AND AMMONIUM (SCALES), B.P., is at 3d. per lb. above, and SODIUM is at 1d. per lb. below these prices; POTASSIUM and SODIUM POWDER, 1d. per lb. extra.

DIAMORPHINE.—Current rates per oz., for small quantities, are as follows: PURE.—½ oz., 58s. 6d.; 1 oz., 56s.; 2 oz., 54s. 6d.; 3 oz., 53s. 9d.; 4 oz., 53s. 6d. HYDROCHLORIDE.—½ oz., 54s. 3d.; 1 oz., 51s. 9d.; 2 oz., 50s. 3d.; 3 oz., 49s. 6d.; 4 oz., 49s. 3d.

ETHYLMORPHINE.—Small quantities are quoted per oz. by makers as follows: PURE.—½ oz., 61s. 6d.; 1 oz., 59s.; 2 oz., 57s. 6d.; 3 oz., 56s. 9d.; 4 oz., 56s. 6d. HYDROCHLORIDE.—½ oz., 53s.; 1 oz., 50s. 6d.; 2 oz., 49s.; 3 oz., 48s. 3d.; 4 oz., 48s.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gram in brackets): ALKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (6s.). HYDROCHLORIDE, HYDROBROMIDE and SULPHATE.—1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

LACTATES.—As noted last week, prices have been advanced by twopence per lb. New rates are as follows: LACTIC ACID.—Six-winchester lots, 3s. per lb.; smaller quantities, 3s. 1d. CALCIUM LACTATE.—Small quantities, 2s. 5d. per lb. CALCIUM SODIUM LACTATE.—Powder,

small lots, 3s. 7d. per lb.; 14-lb., 3s. 4d.; 28-lb., 3s. 2d., granular, one penny per lb. extra.

MAGNESIUM TRISILICATE.—Home market prices per lb., for quantities of 28 lb.—1 cwt. are as follows (containers in brackets): 3s. 9d. (1-lb.); 3s. 7½d. (4-lb.); 3s. 6½d. (7-lb.); 3s. 6d. (14-lb.); 3s. 5½d. (28-lb.). Prices net one month.

MANDELATES.—Makers' quotations are unchanged. SODIUM AND CALCIUM.—4 oz., 8 oz., and 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb. net. AMMONIUM (50 per cent. solution).—4 oz., 8 oz., and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb. net. Packages extra and returnable.

MERCURY IODIDES.—The following are the makers' prices per lb.: RED, less than 7 lb., 20s. 8d.; not less than 7 lb., 20s. 2d.; not less than 14 lb., 19s. 8d. GREEN, less than 7 lb., 28s. 8d.; not less than 7 lb., 26s. 2d.; not less than 14 lb., 25s. 8d. YELLOW, less than 7 lb., 28s. 1d.; not less than 7 lb., 27s. 7d.; not less than 14 lb., 27s. 1d. net, carriage paid.

SANTONIN.—Home trade prices are as follows: 10 kilos and over, £62; not less than 5 kilos, £63; 2-4 kilos, £64; 1 kilo, £65; 500 gm., £66; 250 gm., £67; 100 gm., £68; less than 100 gm., £69 per kilo. Carriage paid in United Kingdom.

Crude Drugs

ARECA NUTS.—Quoted by dealers at 90s. per cwt. for wormy Ceylon.

BALSAMS.—No change in Peru at 7s. 9d. per lb., or in Canada at 9s. 9d. *Copaiba* and *Tolu* are unobtainable.

BELLADONNA.—Indian leaf is quoted at 6s. 1d. to 6s. 3d. per lb., according to test. Root continues scarce.

BENZOIN.—In considerable request, but no supplies are available.

CARDAMONS.—Prices are unchanged as follows: Aleppy greens, 5s. 6d. per lb.; Aleppy seed, 6s. 6d.; split seed, 5s. 6d.

CHAULMOOGRA.—Spot price of *Hydnocarpus*, in tins and cases, would be 1s. 9d. per lb.

CLOVES.—Zanzibar, spot, 1s. 4½d. per lb.

COCOA BUTTER.—Price is fixed at 1s. 5½d. per lb., ex factory or warehouse, except for sales made under Ministry of Food licence.

COCONUT (DESICCATED).—Price is controlled by Ministry of Food Order at 49s. per cwt.

COLOCYNTH.—Spot, 2s. 7½d. to 2s. 9d. per lb., according to holder.

DIGITALIS LEAVES.—Portuguese, spot, 140s. per cwt.; English, 2s. 6d. per lb.

ERGOT.—Good-quality, if available, 6s. 6d. per lb.

GUM ACACIA.—Spot price of Kordofan cleaned sorts is steady at 8s. per cwt.; bleached, spot, quoted at 18s.; Talha, cleaned, 5s. per cwt., landed.

JABORANDI.—As noted last week, spot is dearer at 6s. 6d. per cwt., with supplies scarce.

KAMALA.—Material yielding 6 per cent. ash, 2s. 6d. per lb.

MYRRH.—Good-quality Aden sorts would be worth £20 per cwt.

NUTMEGS.—West Indian, wormy and broken, spot, 1s. 6d. per lb.; sound unassorted, 1s. 9d.

NUX VOMICA.—Cochin, spot, steady at 4s. 6d. per cwt.; shipment, 3s.; c.i.f.; Co-cana seed, shipment, 3s. 6d. per cwt., c.i.f.

PIMENTO.—As noted last week, price is slightly reduced at 1s. 3d. per lb.

QUILLAIA BARK.—Crushed or cut, spot, 9s. per cwt.; natural, 8s.; shipment, 6s., c.i.f.

RHUBARB.—Spot, nominal at 14s. per lb.; stocks meagre.

SENNA.—Alexandrian medium pods are at 4s. per lb.; Tinnevelly, manufacturing grade, 6d. to 6s.; hand-picked, 8s. to 1s.; broken Alexandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevelly, No. 1, 9d. to 10s.; No. 2, 7d. to 7s.; No. 3, 5s. to 6d.

SPICER'S SQUILL.—Portuguese, dried and sliced, 7s. per cwt.; Indian, 6s.

STRAMONIUM LEAVES.—East Indian, spot, 8s. per cwt.

TRAGACANTH.—Medium grades are quoted as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, £85; pale leaf, £60; amber leaf, £50; dark amber, £40; brown leaf, £30; red-and-brown leaf, £25; red leaf, from £20; hoggy, £12 to £15.

VALERIAN ROOT.—Indian root, spot, 11s. per cwt.

WAXES.—BEES'.—Supplies continue to be available only through members of the Association of Merchant-Distributors of Beeswax, Ltd., at the following prices per cwt., delivered at store U.K., effective from October 16, for ton lots: Madagascar crude, 20s. to 23s.; other sorts of crude, 23s. to 24s. (Calcutta sorts unavailable); British refined, 27s. to 30s.; British bleached slabs, 30s.; British bleached discs, 32s.; Lots of under one ton, at premiums as follows: 10-20 cwt., 2s. 6d. per cwt.; 5-10 cwt., 5s. per cwt.; 1-5 cwt., 10s. per cwt.; under 1 cwt., at premiums as arranged by Association members at their discretion. **CARNAUBA.**—Fatty grey, 48s. per cwt., ex store, in minimum one-bag lots; shipment, 39s., c.i.f.; Primeira, 53s. per cwt., ex store; shipment, 45s., c.i.f.; medium yellow, nominal; shipment, 44s., c.i.f.; chalky grey, nominal; shipment, 38s., c.i.f. (c.i.f. prices include 1 per cent. W.R.I.). **CANDELILLA.**—Under 1 ton, 22s. per cwt.; 1-5 tons, 21s. 6d.; 5 tons and over, 21s., ex store.

Essential and Expressed Oils

CASTOR.—“Firsts” are officially quoted at £82 per ton, and “seconds” at £80, both naked ex works, in bulk lots.

CITRONELLA.—Ceylon, spot, about 21s. per lb.; Java, scarce at 27s. 6d.

CLOVE.—English distillers' prices are unchanged at 12s. 6d. to 13s. per lb., according to quantity.

COTTONSEED.—Controlled prices for bulk supplies are as follows: Crude, £52 2s. 6d.; washed, £55 5s.; refined edible, £57; refined deodorised, £58 per ton; all varieties quoted naked ex works.

EUCALYPTUS.—Any available supplies of 70 to 75 per cent. oil would be worth 8s. 6d. per lb.

GINGERGRASS.—Spot, if available, 22s. 6d. per lb.

NUTMEG.—As noted last week, English distillers have advanced their price to 35s. per lb., with lower rates for quantities.

OLIVE (EDIBLE).—The price charged to the wholesaler by the importer is 2s. 9d. per gallon, ex store. Prices charged by wholesalers to retailers are agreed by the Ministry of Food as follows: 33s. 6d. per gallon, in 1-gallon loan cans; 34s. 3d. per gallon, in $\frac{1}{2}$ -gallon loan cans; 35s. per gallon in 1-quart loan cans; 36s. per gallon in 1-pint loan cans.

RAPESEED.—The official quotation for bulk supplies is at £88 per ton, naked ex works.

COMMERCIAL NOTES

Brazilian Castor Oil Exports.—In 1943 Brazil exported 12,629 tons of castor oil.

Spanish Olive Oil.—It is estimated that the Spanish olive oil crop for 1944-45 will total 150,000 to 220,000 metric tons.

British Columbian Agar.—It is reported that supplies of agar from British Columbian seaweed will be sufficient to meet Canadian requirements.

El Salvador Medicinal Imports.—Imports of medicinal products into El Salvador in the first six months of 1944 were valued at \$325,372.

French Oceania Vanilla Beans.—Exports of vanilla beans from the Society Islands, French Oceania, during the first six months of 1944, totalled 80 tons.

Imports to Venezuela.—Though most goods no longer require a licence for import into Venezuela, a licence is still required for many pharmaceutical articles and products, including dentifrices, scented pastilles, perfumery, alkali bases, sodium carbonate, bicarbonate and sulphate, chloride of lime, and combs of celluloid and artificial plastic materials.

MEDICAL ABSTRACTS

Inactivation of Penicillin by Serum.—All literature hitherto available on the subject has given the impression that serum has no prejudicial effect on the antibacterial activity of penicillin. Bigger ("Lancet," September 23, p. 400) shows that penicillin is inactivated by contact with human serum or blood, the degree of inactivation varying greatly with different specimens of serum and being much greater at body temperature than at lower levels. The inactivation of penicillin by high concentration of serum is of importance chiefly in relation to the therapeutic use of the substance, but may lead bacteriologists to underestimate the amount of penicillin in the serum of a patient, particularly when the concentration is low. The mechanism of inactivation has not been discovered.

Sulphonamides to Reinforce Penicillin.—The illuminating fact that certain drugs of the sulphonamide group, and particularly sulphathiazole, while not in themselves curative in conditions in which the infecting organism is the staphylococcus, enhance the effect of penicillin, is commented on by Bigger in the "Lancet" (July 29, p. 142). He finds that the presence of sulphathiazole in broth greatly increases the dilution at which the inhibitory action of penicillin on the staphylococci can be demonstrated, and that the same synergic action of sulphathiazole and penicillin can be demonstrated in serum. The organism *Streptococcus pyogenes* is similarly susceptible to a combination of the two substances, and the author suggests that the possibilities of combined treatment should be further explored in suitable infections.

MISCELLANEOUS INQUIRIES

Sulphanilamide Cream for Burns.—*E. Y. L.*—A 3 per cent. cream of sulphanilamide is evidently intended. A usual formula is:—

Sulphanilamide	..	..	3
Glycerin	..	..	10
Arachis oil	..	..	25
Lanette wax	..	..	10
Water	..	..	52

Mix the first two and the last three ingredients separately, then mix together.

Gram-positive and Gram-negative Organisms.—*K. E. W.*—The gram method of staining is so-called after Christian Gram, a Dane, who worked out the process in Koch's laboratory. The dye employed is "aniline gentian violet," followed by Lugol's iodine; after staining, the prepara-

tion is washed in alcohol until no more dye is removed, and then counterstained with fuchsin or bismark brown. Organisms retaining the blue dye are called gram-positive whilst those decolorised by the alcohol and stained pink by fuchsin are called gram-negative.

Literature on Edible Oils.—*S. F.*—Abundant literature—chemical, research, analytical and commercial—on edible oils has been published in England, America and Germany. The trouble is that textbooks are difficult to find today, and the only method is to search for them at second-hand bookshops. The standard textbook in English is "Oils, Fats, Waxes and their Manufactured Products" (Wright and Mitchell), which has been re-edited from time to time. It covers, of course, other than edible oils, e.g. oils and fats for soap manufacture, etc. "Vegetable Fats and Oils" (Jamieson) gives an excellent survey of the known sources of vegetable oils, their nature and uses, and also covers the analytical side; above all, it gives a complete bibliography of other authoritative works and articles in technical journals published in every country.

CORRESPONDENCE

Damaged or Destroyed Shops

SIR.—The Surrey Pharmaceutical Committee has kept a record so far as possible of shops that have been destroyed or damaged by enemy action since the beginning of the war. The Committee is now anxious to get this list as complete as possible and a report is asked for by January 10. Would Surrey chemists kindly forward to me details of the damage caused, so far as possible the approximate date or dates, and whether wholly destroyed or still able to carry on business.

Yours faithfully,
Carshalton. W. H. FOWLER, *Secretary*
Surrey Pharmaceutical Committee

"C. & D." Quiz No. 44.—The answers to the questions on p. 694 are: 1. Copper sulphate. 2. Pulv. pancreatin. co., B.P.C. 3. Pil. aloin. co., B.P.C. 4. Troch. glycyrrhizæ, B.P.C. 5. Deficient muscular power, especially a feeling of weakness in the arms and legs. 6. Dmitri Ivanovitsch Mendeléeff, 1834-1907, a professor of chemistry at St. Petersburg, chiefly associated with the Periodic Classification of the elements. 7. Basic aluminium phosphate, coloured by copper. 8. The solution made by boiling sulphur with milk of lime. 9. $SiHCl_3$; in which silicon is substituted for carbon. 10. Zinc oxide produced by burning zinc in air.

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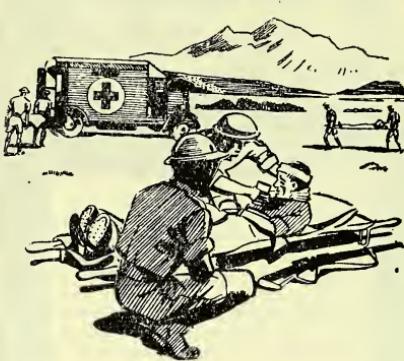
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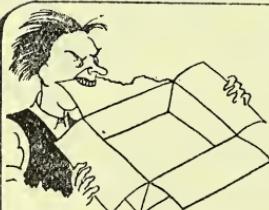
Meanwhile limited orders for a few domestic types can be accepted, such as greenhouse oven and refrigerator thermometers.

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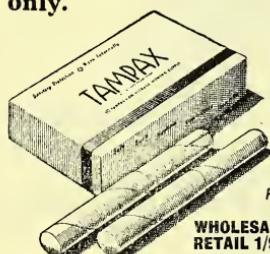
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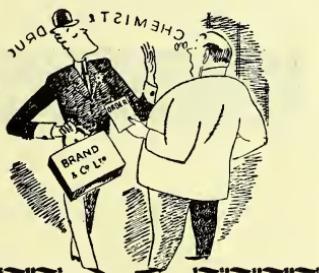
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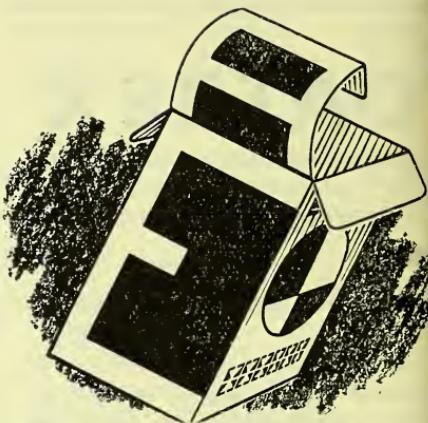
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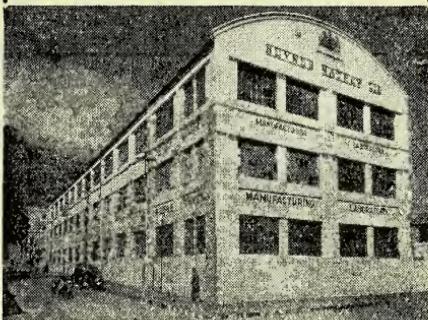
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DECEMBER 30
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